

## Births: Final Data for 1999

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### Abstract

**Objectives**—This report presents 1999 data on U.S. births according to a wide variety of characteristics. Data are presented for maternal demographic characteristics including age, live-birth order, race, Hispanic origin, marital status, and educational attainment; maternal characteristics (medical risk factors, weight gain, tobacco and alcohol use); medical care utilization by pregnant women (prenatal care, obstetric procedures, complications of labor and/or delivery, attendant at birth, and method of delivery); and infant characteristics (period of gestation, birthweight, Apgar score, abnormal conditions, congenital anomalies, and multiple births). Also presented are birth and fertility rates by age, live-birth order, race, Hispanic origin, and marital status. Selected data by mother's State of residence are shown, as well as data on month and day of birth, sex ratio, and age of father. Trends in fertility patterns and maternal and infant characteristics are described and interpreted.

**Methods**—Descriptive tabulations of data reported on the birth certificates of the 3.96 million births that occurred in 1999 are presented.

**Results**—Overall birth and fertility rates changed less than 1 percent in 1999. Teenage birth rates fell 2 to 6 percent. The rate for women aged 20–24 years declined slightly, while rates for women in their late twenties and their thirties rose 2 to 3 percent each. The number of births to unmarried women, the birth rate, and the percent of births that were to unmarried women each rose 1 percent or less. Smoking by pregnant women overall dropped again, but rose among women aged 18–24 years. Improvements in prenatal care utilization continued. The cesarean delivery rate increased for the third year after declining for 7 consecutive years. The proportion of multiple births continued to rise; however, higher order multiple births (e.g., triplets, quadruplets) declined for the first time in over a decade, following increases of 13 percent per year during 1990–98. The percent low birthweight remained at 7.6 percent, while preterm births rose to 11.8 percent. These trends are in large part the result of increases in multiple births.

**Keywords:** births • birth certificate • maternal and infant health • birth rates • maternal characteristics

### Highlights

**Births** in the United States increased less than 1 percent in 1999, to 3,959,417, the second consecutive increase following a 7-percent decline from 1990 to 1997. The **birth rate** declined slightly in 1999 to 14.5 births per 1,000 total population, matching the record low reached in 1997. The **fertility rate**, which relates births to the number of women of childbearing age, increased less than 1 percent to 65.9 births per 1,000 women aged 15–44 years.

**Fertility rates for women in racial and Hispanic origin subgroups** changed relatively little in 1999. Rates increased for non-Hispanic white, Asian or Pacific Islander (API), Puerto Rican, and Cuban women. Rates declined for non-Hispanic black, Mexican, and American Indian women. The variation in rates found for recent years continued in 1999. The fertility rate was highest for Mexican women (112 per 1,000) followed by rates for Puerto Rican, non-Hispanic black, American Indian and API women, which fell within a relatively narrow range (66 to 78 per 1,000). Rates were much lower for non-Hispanic white and Cuban women (58 and 51 per 1,000, respectively).

**The birth rate for teenagers** declined again in 1999, falling 3 percent to 49.6 births per 1,000 women aged 15–19 years. The rate

### Acknowledgments

This report was prepared under the general direction of Mary Anne Freedman, Director of the Division of Vital Statistics (DVS). Nicholas F. Pace, Chief of the Systems, Programming, and Statistical Resources Branch (SPSRB), and Manju Sharma, Gail Parr, Steven Steimel, Jordan Sacks, Thomas D. Dunn, Joyce Arbertha, and Jaleh Mousavi of SPSRB provided computer programming support and statistical tables. Robert N. Anderson of the Mortality Statistics Branch and Lester R. Curtin of the Office of Research and Methodology contributed to the [Technical notes](#). T. J. Mathews of the Reproductive Statistics Branch coordinated content review, assisted by Brady Hamilton, Fay Menacker, and Melissa Park. Staff of the Data Acquisition and Evaluation Branch carried out quality evaluation and acceptance procedures for the State data files on which this report is based. The Registration Methods staff of DVS consulted with State vital statistics offices regarding the collection of birth certificate data. This report was edited by Demarius V. Miller, typeset by Jacqueline M. Davis, and the graphics produced by Jarmila G. Ogburn of the Publications Branch, Division of Data Services.

has declined 20 percent since 1991 (62.1) and is now at a record low. The birth rate for young teenagers 15–17 years fell 6 percent during 1998–99 to 28.7 per 1,000, also a record low. The rate for older teenagers 18–19 years declined 2 percent to 80.3. From 1991 to 1999, the rate for young teenagers dropped 26 percent, while the rate for older teenagers declined 15 percent. Although all population groups have experienced declines, the reductions in birth rates have been steepest for non-Hispanic black teenagers; rates fell by 22 to 38 percent. The teenage *pregnancy* rate has declined 19 percent in the 1990's, to 94.3 in 1997, reflecting concurrent declines in birth and abortion rates.

The **birth rate for women in their early twenties** declined slightly in 1999, falling to 111.0 per 1,000 women aged 20–24 years. The **rate for women aged 25–29** years increased 2 percent to 117.8 per 1,000. Birth rates for women in their twenties have changed relatively little since the early to mid-1970's.

**Birth rates for women in their thirties** increased to 89.6 per 1,000 aged 30–34 years, and to 38.3 per 1,000 aged 35–39 years, up 2 to 3 percent each. The rates for these age groups are at their highest in more than three decades. The **birth rate** for women aged 40–44 years increased again in 1999 to 7.4 per 1,000.

The **first birth rate** increased in 1999, to 26.6 first births per 1,000 women aged 15–44 years, the first increase in this rate since 1990. The **median age at first birth** increased to 24.5 years; the median has risen slowly but steadily since 1972 (22.0).

The **birth rate for unmarried women** increased slightly in 1999 to 44.4 births per 1,000 unmarried women aged 15–44 years. The number of births to unmarried women rose 1 percent to 1,308,560, the highest number ever reported. Most of this increase was linked to the rise in the number of unmarried women in the childbearing ages. The percent of all births that were to unmarried women increased to 33.0 percent in 1999, compared with 32.8 percent in 1998.

**Cigarette smoking during pregnancy** declined again in 1999, to 12.6 percent. The overall rate has fallen steadily since 1989. However, tobacco use by pregnant teenagers continued to increase in 1999, and the rates for women aged 20–24 years rose for the first time in a decade. Overall smoking rates remain lowest for non-Hispanic black, Hispanic, and Asian or Pacific Islander women. Infant birthweight is seriously compromised by maternal smoking: In 1999, 12.1 percent of births to smokers compared with 7.2 percent of births to nonsmokers weighed less than 2,500 grams (5 pounds, 8 ounces).

Women were slightly more likely to receive **timely prenatal care** in 1999, 83.2 percent began care in the first trimester of pregnancy, compared with 82.8 percent in 1998. The proportion of women with first trimester care has risen each year of the 1990's, for a total increase of 10 percent. Concurrently, the percent of women with late or no care has also improved for the decade, falling from 6.1 to 3.8 percent. Timely care has increased for all racial/ethnic groups between 1990 and 1999 with the largest gains (20 percent or more) reported for non-Hispanic black, American Indian, Hawaiian, Mexican, Puerto Rican, and Central and South American women.

The **rate of cesarean delivery** increased 4 percent between 1998 and 1999 to 22.0 percent; the 1999 rate is 6 percent higher than the recent low point in 1996 (20.7). This was the third consecutive year that the rate increased after falling each year during 1989–96. The **primary cesarean rate** in 1999 (15.5 per 100 live births to women who had no previous cesarean) was 4 percent higher than in 1998 and 6 percent

higher than in 1997 (14.6). The rate had declined each year between 1989 and 1996 and remained steady between 1996 and 1997. The rate of **vaginal birth after previous cesarean delivery (VBAC)** declined 11 percent between 1998 and 1999—from 26.3 per 100 women with a previous cesarean to 23.4. The VBAC rate dropped 17 percent between 1996 and 1999 after rising 50 percent between 1989 and 1996 (from 18.9 to 28.3). Births delivered by **forceps** continued to decline, to 2.3 percent of all births in 1999. After increasing steadily between 1989 and 1997, the percent of births delivered by **vacuum extraction** fell 18 percent between 1997 and 1999, to 5.1 percent.

Almost 20 percent of women who delivered in 1999 had **induced labor**, twice the 1990 level. The rate of induction has increased every year since 1989.

**Twin births** continued to rise in 1999, but for the first year in over a decade, **triplet and other higher order multiple births** (triplet/+) births declined. The number and rate of twin births was up 3 percent to 114,307 or 28.9 per 1,000 live births between 1998 and 1999. The twinning rate has risen by more than 50 percent since 1980. The number of triplet/+ births however, was down to 7,321 for 1999, from 7,625 in 1998; the triplet/+ birth rate declined 4 percent, from 193.5 to 184.9 per 100,000 live births. For 1998–99 the non-Hispanic white triplet/+ birth rate declined, but the rate increased among non-Hispanic black and Hispanic women. Since 1980, the number and rate of triplet/+ births has climbed from 1,337 and 37.0 per 100,000.

The rate of **preterm birth** (less than 37 completed weeks of gestation) increased again for 1999 to 11.8 percent from 11.6 percent in 1998. The percent of births born preterm has risen 11 percent since 1990 (10.6 percent). All of the current year rise, and most of that for the decade, has been among moderately preterm births (between 32 and 36 weeks of gestation). The proportion of births born very preterm was 1.96 percent; this level has fluctuated little since 1990. The preterm rate increased for non-Hispanic white births (10.2 to 10.5 percent for 1998–99), but was unchanged among non-Hispanic black (17.6 percent) and Hispanic births (11.4 percent).

The **low birthweight (LBW)** (less than 2,500 grams) rate was unchanged for 1999 at 7.6 percent. Low birthweight has been rising fairly steadily since the mid-1980's (6.8 percent), and has risen 9 percent since 1990 (7.0 percent). The percent **very low birthweight (VLBW)** (less than 1,500 grams) was unchanged from the previous year (1.45 percent), but has increased from 1.27 percent in 1990. LBW has risen substantially (18 percent) among non-Hispanic white births in the 1990's, but has declined slightly among births to non-Hispanic black mothers. The rise in LBW, especially among non-Hispanic white births, is influenced by the increased multiple birth rate; multiple births are much more likely than singletons to be low birthweight.

## Introduction

This report presents detailed data on numbers and characteristics of births in 1999, birth and fertility rates, maternal lifestyle and health characteristics, medical services utilization by pregnant women, and infant health characteristics. These data provide important information on fertility patterns among American women by such characteristics as age, live-birth order, race, Hispanic origin, marital status, and educational attainment. Up-to-date information on these fertility patterns is critical to understanding population growth and

change in this country and in individual States. Data on maternal characteristics such as weight gain, tobacco and alcohol use, and medical risk factors are useful in accounting for differences in birth outcomes. Information on use of prenatal care, obstetric procedures, complications of labor and/or delivery, attendant at birth and place of delivery, and method of delivery by maternal demographic characteristics can also help to explain differences in birth outcomes. It is very important that data on birth outcomes, especially levels of low birthweight and preterm birth, be continuously monitored, because these variables are important predictors of infant mortality and morbidity.

A report of preliminary birth statistics for 1999 presented data on selected topics based on a substantial sample (more than 99 percent) of the 1999 birth file (1). Findings for the selected measures (age, race, Hispanic origin, and marital status of mother, live-birth order, prenatal care, cesarean delivery, and low birthweight) based on the preliminary data are very similar to those presented here based on final data.

In addition to the tabulations included in this report, more detailed analysis is possible by using the natality public-use data tape, which is issued for each year. Birth data are also available in CD-ROM format since 1990, and a selection of tables of detailed data are available on the NCHS home page at <http://www.cdc.gov/nchs/datawh/statab/unpubd/natality/natab97.htm> (2, 3).

## Methods

Data shown in this report are based on 100 percent of the birth certificates registered in all States and the District of Columbia. More than 99 percent of births occurring in this country are registered (4). Tables that show data by State also provide separate information for Puerto Rico, Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Marianas. However, these areas are not included in totals for the United States.

In this report, tabulations of births beginning with 1980 data are by race of mother; for years prior to 1980, tabulations are by race of child. Details of the differences in tabulation procedure are described in the [Technical notes](#). Text references to black births and black mothers or white births and white mothers are used interchangeably for ease in writing.

Race and Hispanic origin are reported independently on the birth certificate. In tabulations of birth data by race and Hispanic origin, data for Hispanic persons are not further classified by race because the vast majority of women of Hispanic origin are reported as white. Most tables in this report show data for these categories: white, total; white, non-Hispanic; black, total; black, non-Hispanic; and Hispanic. When data other than birth rates for Hispanic subgroups are shown, they are presented for the following five groups: Mexican, Puerto Rican, Cuban, Central and South American, and other (and unknown) Hispanic. When reporting birth rates for Hispanic subgroups, births to Central and South American women are added to births to other (and unknown) Hispanic women because more detailed population data for Central and South American women are not separately available. Data are shown for five Asian or Pacific Islander (API) subgroups: Chinese, Japanese, Hawaiian, Filipino, and "other" API. In addition, 11 States report data on API subgroups included in the "other API" category (Vietnamese, Asian Indian, Korean, Samoan, Guamanian, and remaining API); see [Technical notes](#).

U.S. and State-level birth and fertility rates in this report were computed on the basis of population denominators provided by the U.S. Bureau of the Census. Rates by State shown in this report may differ from rates computed on the basis of other population estimates. Additional information on the measurement of marital status, gestational age, and birthweight; the computation of derived statistics and rates; population denominators; random variation and relative standard error; and the definitions of terms are presented in the [Technical notes](#).

Information on births by age, race, or marital status of mother is imputed if it is not reported on the birth certificate. These items were not reported for less than 1 percent of U.S. births in 1999. (See [Technical notes](#) for additional information.) All other maternal and infant characteristics (except items on which length of gestation is calculated) are not imputed; see [Technical notes](#). Births for which a particular characteristic is unknown are subtracted from the figures for total births that are used as denominators before percents, percent distributions, and medians are computed. Thus, for example, the proportion of women receiving care in the first trimester of pregnancy is computed on the basis of births for which month prenatal care began was reported. Levels of nonreporting vary substantially by specific item and by State. [Table I](#) in the [Technical notes](#) provides information on the percent of records with missing information for each item by State for 1999. Readers should note that the levels of incomplete reporting for some of the medical items are quite high in some States. Data for Connecticut, Hawaii, and Oklahoma, as well as the Northern Marianas are of particular concern.

## Demographic characteristics

### Births and birth rates

#### Number of births

The number of births in the United States increased less than 1 percent in 1999, to 3,959,417, compared with 3,941,553 in 1998. This is the second year of increase, albeit very modest, in the number of births since 1990. Between 1990, the most recent high point in U.S. births, and 1997, the number of births fell 7 percent; the number rose 2 percent between 1997 and 1999 (see [tables 1–14 for national and State birth data by age, live-birth order, race, and Hispanic origin](#)).

Increases and declines in the **number of births for race and Hispanic origin groups** were about evenly split in 1999 ([tables 1 and 6](#)). The number of non-Hispanic white and non-Hispanic black births each fell about 1 percent. Births to American Indian, Puerto Rican, Cuban, and Hawaiian women were essentially unchanged. While births to Hispanic and Asian or Pacific Islander (API) women increased overall about 4 to 5 percent, these increases were concentrated among a few subgroups: Mexican and Central and South American births rose 5 percent each, Chinese births increased 3 percent, and "other" API births jumped 8 percent. In contrast Japanese and Filipino births declined 2 percent each.

#### Crude birth rate

The crude birth rate declined very slightly from 14.6 live births per 1,000 total population in 1998 to 14.5 in 1999, matching a record

low for the Nation (1997). During the 1990's the rate declined in all but one year (1998). Between 1990 and 1997, the rate fell 13 percent.

**Fertility rate**

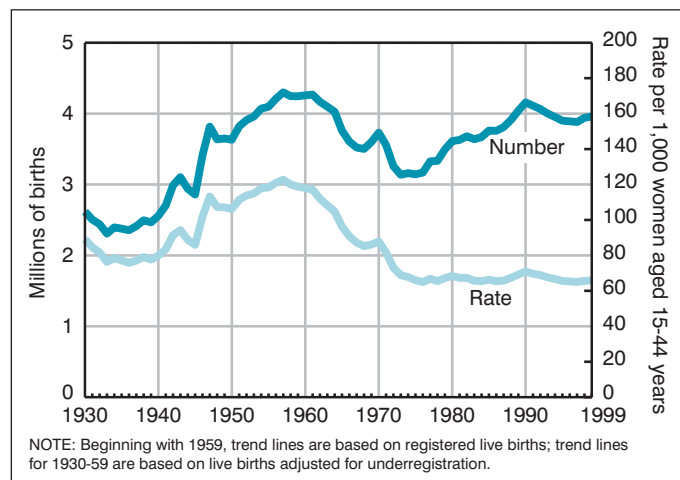
The fertility rate, which relates births to the number of women in the childbearing ages, was 65.9 live births per 1,000 women aged 15–44 years in 1999, less than 1 percent higher compared with 1998 (65.6). While the steady 7-year downward trend in U.S. fertility from 1990 to 1997 may have ended, at least temporarily, there is no evidence for any real upturn. Like the number of births and the birth rate, the recent high point for the fertility rate was 1990 (70.9); between 1990 and 1997, the fertility rate dropped 8 percent (table 1 and figure 1).

**Fertility rates by race and Hispanic origin increased** very slightly for non-Hispanic white (57.8 per 1,000 aged 15–44 years) women and declined 1 percent for non-Hispanic black women (72.2). Rates for American Indian (69.7) and Mexican women (111.6) each declined by 1 percent or less. Rates for API (65.6), Puerto Rican (77.7), Cuban (51.2), and other Hispanic women (92.6) each rose 2 to 3 percent (tables 1 and 6). Birth and fertility rates for specific API groups cannot be computed because the necessary populations are not available.

The fertility rate for Hispanic women in 1999 was among the lowest reported since 1989 when data accounting for virtually all Hispanic births in the United States first became available. The fertility rate for Mexican women in 1999 is also at its lowest, 8 percent lower than the peak recorded in 1991 (121.6). Trends in fertility for Hispanic women by subgroup for 1989–95 are presented in more detail in a recent report (5).

**Age of mother**

*Teenagers*—Birth rates for teenagers fell to all-time lows in 1999. The **birth rate for the youngest teenagers** was 0.9 births per 1,000 females 10–14 years in 1999, a record low for this age group (table 4). This rate has declined steadily since 1994 (the rate was 1.4 in each year 1989 through 1994). The number of births to 10–14-



**Figure 1. Live births and fertility rates: United States, 1930–99**

year-olds fell 4 percent from 1998 to 1999, to 9,054, the lowest total reported in more than three decades (8,593 in 1967). The number of births to very young teenagers declined solely because the birth rate fell; the number of female teenagers has increased steadily in the 1990's and rose 2 percent from 1998 to 1999 (6).

The **birth rate for teenagers 15–19 years** fell 3 percent to 49.6 per 1,000, an all-time low for the Nation. This rate was 20 percent lower than the recent peak reported in 1991 (62.1) (table A). The declines in the 1990's in the teenage birth rate essentially reverse the 24-percent increase that occurred from 1986 (50.2 per 1,000) to 1991. State-specific birth rates for teenagers are discussed in the section "Births and birth rates by State."

**Birth rates for teenage subgroups 15–17 and 18–19 years** also fell between 1998 and 1999. The rate for teenagers 15–17 years declined 6 percent to 28.7 per 1,000, another record low (1,7). This rate fell by 26 percent from 1991 (38.7) to 1999 (table 4 and figure 2). The number of births to teenagers 15–17 years fell 3 percent from 1998 to 1999 to 163,588, the fewest in more than four decades.

The birth rate for older teenagers 18–19 years declined 2 percent, to 80.3 per 1,000. This rate fell 15 percent from 94.5 in 1992 (its recent high) to 1999 and is at its lowest point in more than a decade (79.9 in 1988). However, the number of births to older teens increased slightly between 1998 and 1999 to 312,462, only the second increase since 1990. This small increase is entirely due to the 2-percent rise in the number of female teenagers 18–19 years (6).

**Table A. Birth rates for teenagers 15–19 years by age, race, and Hispanic origin of mother: United States, 1991, 1998, and 1999, and percent change, 1991–99**

[Rates are live births per 1,000 women in specified group]

| Year and age                      | Total <sup>1</sup> | Non-Hispanic |       |          |
|-----------------------------------|--------------------|--------------|-------|----------|
|                                   |                    | White        | Black | Hispanic |
| <b>15–19 years</b>                |                    |              |       |          |
| 1999 . . . . .                    | 49.6               | 34.0         | 83.7  | 93.4     |
| 1998 . . . . .                    | 51.1               | 35.2         | 88.2  | 93.6     |
| 1991 <sup>2</sup> . . . . .       | 62.1               | 43.4         | 118.9 | 106.7    |
| Percent change, 1991–99 . . . . . | –20                | –22          | –30   | –12      |
| Percent change, 1998–99 . . . . . | –3                 | –3           | –5    | –0       |
| <b>15–17 years</b>                |                    |              |       |          |
| 1999 . . . . .                    | 28.7               | 17.1         | 53.7  | 61.3     |
| 1998 . . . . .                    | 30.4               | 18.4         | 58.8  | 62.3     |
| 1991 <sup>2</sup> . . . . .       | 38.7               | 23.6         | 86.7  | 70.6     |
| Percent change, 1991–99 . . . . . | –26                | –28          | –38   | –13      |
| Percent change, 1998–99 . . . . . | –6                 | –7           | –9    | –2       |
| <b>18–19 years</b>                |                    |              |       |          |
| 1999 . . . . .                    | 80.3               | 58.9         | 126.8 | 139.4    |
| 1998 . . . . .                    | 82.0               | 60.6         | 130.9 | 140.1    |
| 1991 <sup>2</sup> . . . . .       | 94.4               | 70.5         | 163.1 | 158.5    |
| Percent change, 1991–99 . . . . . | –15                | –16          | –22   | –12      |
| Percent change, 1998–99 . . . . . | –2                 | –3           | –3    | –0       |

<sup>1</sup>Includes races other than white and black and origin not stated.

<sup>2</sup>See reference 5 for information on reporting areas in 1991.

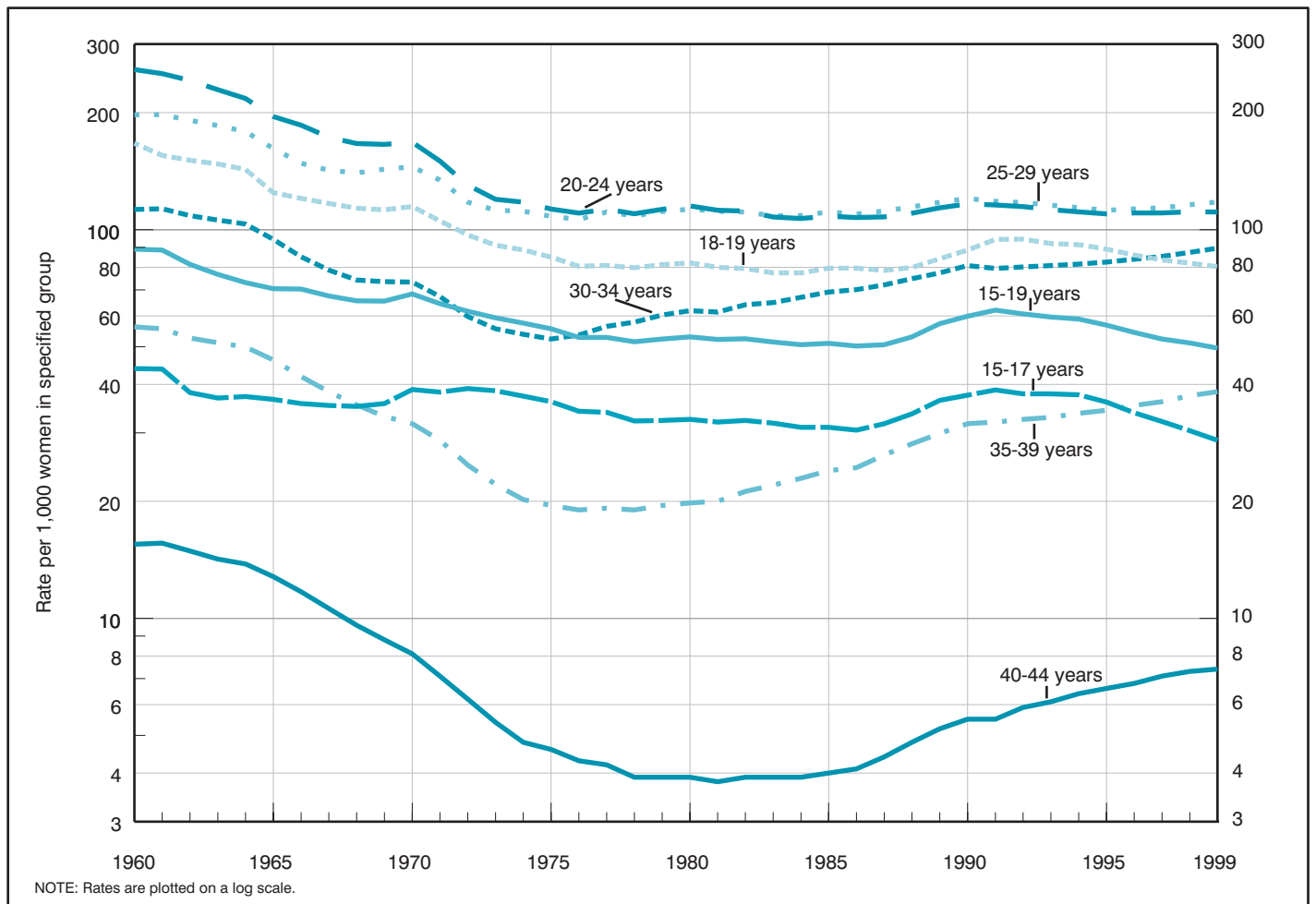


Figure 2. Birth rates by age of mother: United States, 1960–99

Teenage birth rates by race and Hispanic origin vary substantially (tables 3, 4, 8, and 9). Rates in 1999 were highest for Mexican, non-Hispanic black, Puerto Rican, and American Indian teenagers and lowest for non-Hispanic white, Cuban, and API teenagers, a pattern that has been observed since 1994. Despite the marked variation in rates (ranging from 22.3 to 101.5 per 1,000 aged 15–19 years), all population groups experienced notable declines in the 1990's. Between 1998 and 1999, teenage birth rates declined for all race and Hispanic origin groups except Cuban and "other" Hispanic teenagers. The rates for non-Hispanic white and API teenagers fell 3 percent each, while rates for non-Hispanic black and American Indian teenagers declined 5 to 6 percent each. The rates for Hispanic teenagers as a group and Mexican teenagers declined 1 percent or less.

From 1991, when rates for teenagers generally were at a peak, to 1999, birth rates fell 22 to 30 percent for non-Hispanic white and black teenagers, respectively. Despite the increase in the rate for Cuban teenagers, their rate remains one of the lowest among population subgroups. The 1999 rates for API and American Indian teenagers were 19 to 20 percent lower, respectively, than in 1991. The rate for Mexican teenagers, currently the highest of all groups, has declined by 19 percent just since 1995.

Teenage pregnancy rates (based on the sum of live births, induced abortions, and fetal losses) have also declined in recent years (8–10). The pregnancy rate for teenagers 15–19 years fell 19 percent

from 116.5 per 1,000 in 1991 to 94.3 in 1997, reversing an 11-percent rise from 1986 to 1991 (8, 9). (The most recent year for which pregnancy rates are available is 1997.) Further declines in the teenage pregnancy rate since 1997 are likely based on the sustained decline in the teenage birth rate.

The factors accounting for the current downturn in teenage pregnancy and birth rates are discussed in recent reports (7, 8). Briefly, the proportion of teenagers who are sexually experienced has stabilized in the mid 1990's, reversing the steady increases over the past two decades (11). Many public and private initiatives have focused teenagers' attention on the importance of pregnancy prevention through abstinence (12). Moreover, teenagers are more likely to use contraceptives at first intercourse, especially condoms (11, 13, and 14). Some sexually active teenagers have switched to implant and injectable contraceptives, which are effective new birth control methods (11).

**Women aged 20 years and over: Women in their twenties**—The birth rate for women aged 20–24 years declined very slightly in 1999 to 111.0 per 1,000. Since 1996, this rate has varied little, from 110 to 111 per 1,000. Earlier in the decade, the rate fell 5 percent from 116.5 in 1990 to 1996 (tables 4 and 9). The birth rate for women aged 25–29 years rose 2 percent in 1999 to 117.8, its highest level since 1992; this rate increased by 5 percent since 1995, following steady declines during 1990–95. Birth rates for women in their twenties, the principal childbearing ages, have been relatively stable over the

past two decades. In 1999 as in previous years, birth rates for women in age groups 20–24 and 25–29 years were consistently highest for Mexican women.

**Women in their thirties**—Birth rates for women in their thirties rose again in 1999. Rates for women in these age groups have generally increased steadily since the mid- to late 1970's, a pattern unlike any other age group (tables 4 and 9) (3, 15). The rate for women aged 30–34 years increased 3 percent in 1999 to 89.6 per 1,000. The 1999 rate was higher than in any year since 1965 (94.4), and 71 percent higher than the rate at its low point in 1975 (52.3) (3, 15). The pace of increase in the rate slowed in the 1990's to about 1 percent per year, compared with 3 percent annually during 1975–90. The number of births to women aged 30–34 years increased only slightly in 1999, because the number of women in that age group declined 2 percent (6).

The birth rate for women in their late thirties increased 2 percent to 38.3 per 1,000 women aged 35–39 years. This rate has more than doubled since 1978 (19.0); the 1999 rate matches the previous high point reached in 1967 (3). The pace of increase in the rate for women aged 35–39 years also slowed in the 1990's to about 2 percent annually compared with 4 percent per year from 1978 to 1990. Nevertheless, the 1999 rate was still 21 percent higher than the rate in 1990 (31.7). The number of births to women aged 35–39 years reached another record high in 1999 (434,294). During the 1990's, the number rose by more than one-third (317,583 in 1990). Among women in their thirties, birth rates were highest for API, Mexican, and "other" Hispanic women (tables 3 and 8).

**Women in their forties**—The birth rate for women aged 40–44 years increased from 7.3 per 1,000 in 1998 to 7.4 in 1999. This rate increased a third from 1990 (5.5) to 1999. From 1981 when the rate was at its lowest to 1999, the rate increased by 95 percent; the 1999 rate is higher than in any year since 1970 (8.1). From 1990 to 1999, the number of births in this age group rose 71 percent, from 48,607 to 83,090.

The birth rate for women aged 45–49 years remained unchanged at 0.4 births per 1,000 in 1998. Reflecting the continued increase in the number of women in this age group (who were born during 1950–54), the number of births to women aged 45–49 years rose 15 percent to 4,174, the highest number recorded in more than three decades (4,436 in 1966).

**Births to women aged 50 years and over**—Birth data for women aged 50–54 years are reported for the third consecutive year in 1999. These data were not available during 1964–96; for that period, mother's age was edited for ages 10–49 years (4). Additional information on the editing procedures is presented in the Technical notes. Because of the recent advances in fertility-enhancing therapies, an increasing number of women are giving birth at age 50 and older. In 1999, 174 births were reported to women aged 50–54 years (tables 2 and 7); 68 of these births were part of a multiple delivery (see section below on "Multiple births"). This number is too small for computing an age-specific birth rate. Therefore, in computing birth rates by age of mother, births to women aged 50–54 years have been included with births to women aged 45–49 years; the denominator for the rate is women aged 45–49 years.

Birth rates for women in their late thirties and early forties increased in 1999 but at a more moderate pace, similar to that experienced earlier in the 1990's. Still the rates for these age groups are dramatically higher than a quarter century ago (table 4). The

sustained rise is linked to several factors, including the availability and use of fertility-enhancing therapies by childless couples. Among currently childless women aged 35–44 years reporting impaired fecundity according to the National Survey of Family Growth, the proportion seeking fertility drug treatment rose considerably from 1982 to 1995 (13, 16).

### Live-birth order

The first birth rate in 1999 was 26.6 first births per 1,000 women aged 15–44 years (table 5), up slightly compared with 1998. The 1999 increase was the first since 1990. The 1999 rate was 8 percent lower than in 1990 (29.0), its recent high point. The rates for second and third order births also increased slightly. Birth rates for other birth orders were unchanged.

While the first birth rate increased about 1 percent overall, there were substantial differences in the trends by age of mother (table 3; tabular data not shown for 1998 and earlier years). Rates declined for teenage subgroups 15–17 and 18–19 years by 6 and 1 percent, respectively. Rates for women in their twenties increased up to 1 percent. In contrast, first birth rates rose 4 and 2 percent, respectively, for women aged 30–34 and 35–39 years. The rate for women aged 40–44 years rose as well. Women aged 30 years and over accounted for 23 percent of all first births in 1999, the same proportion as in 1997 and in 1998, but dramatically higher than the 5 percent level reported in 1975 (15).

Another measure that can be useful in interpreting age trends in childbearing is the median age at first birth. The median age is the value that divides the birth rate distributions into two equal parts, one-half of the values being less and one-half being greater. This measure has gradually increased since the early 1970's as the tendency for women to postpone childbearing was underway. The median age at first birth inched up again in 1999 to 24.5 years, compared with 24.3 years in 1998, 23.8 in 1990, and 22.0 in 1972 (3). The mean age at first birth is also useful in reviewing age patterns in fertility; the mean age was 24.8 years in 1999, compared with 24.7 in 1997 and 1998.

The birth rate for second births to teenagers who have had a first birth changed very little in 1999, compared with 1997 and 1998, after falling 21 percent from 1991 to 1996 (6). All of the decline in teenage birth rates in 1999 was thus due to declines in first birth rates.

### Total fertility rate

The total fertility rate (TFR) shows the potential impact of current fertility patterns on completed family size. The TFR indicates the number of births that a hypothetical group of 1,000 women would have if they experienced throughout their childbearing years the age-specific birth rates observed in a given year. Because it is computed from age-specific birth rates, the TFR is age-adjusted; it is not affected by changes over time in age composition.

The TFR in 1999 was 2,075.0, a scant 1 percent higher than in 1998 (tables 4 and 9). The TFR has increased by 3 percent overall since 1995, reversing a 3-percent decline from 1990 to 1995. The increase in the TFR in 1999 resulted from the 1- to 3- percent increases in age-specific birth rates for women in age groups 25–44 years, which more than compensated for the declines in birth rates for teenagers and women in their early twenties.

The U.S. TFR for 1999 was about 1 percent below “replacement” level (2,100), the rate at which a given generation can exactly replace itself. The TFR has been below “replacement” since 1971 (2,266.5). TFR’s vary substantially among racial and Hispanic origin groups. In 1999, as in recent years, the TFR was above “replacement” for Mexican, non-Hispanic black, Puerto Rican, and “other” Hispanic women. Rates were below “replacement” for American Indian, API, Cuban, and non-Hispanic white women ([tables 4, 9, 13, and 14](#)). Increases and decreases between 1998 and 1999 in most TFR’s were 1 percent or less; the rate declined 2 percent for American Indian women and rose 3 percent for API women. State-specific total fertility rates for 1999 are discussed in the next section.

## Births and birth rates by State

Birth data by race and by Hispanic origin for 1999 are shown in [tables 10–12](#) for the 50 States and the District of Columbia, and Puerto Rico, the Virgin Islands, Guam, American Samoa, and the Northern Marianas. The American Indian, Asian or Pacific Islander (API), and Hispanic populations (and Hispanic subgroups) are highly concentrated geographically.

Increases and declines in the **number of births** were fairly evenly divided among the 50 States and the District of Columbia, and were generally 2 percent or less. The number of births rose 4 percent in Arizona, Colorado, and Georgia and fell 3 to 4 percent in Hawaii, New Hampshire, and North Dakota. Births fell 6 to 7 percent in the Virgin Islands, Guam, and the Northern Marianas and rose 3 percent in American Samoa.

**Crude birth rates** by State ranged from 11 births per 1,000 total population (Maine and Vermont) to 22 per 1,000 (Utah) ([table 10](#)). Birth rates increased in 14 States, declined in 29 States, the District of Columbia, Puerto Rico, the Virgin Islands, Guam, and the Northern Marianas, and were unchanged in 7 States and American Samoa. Changes were no greater than 2 percent in most States, and were not significant in 35 of the States and the District of Columbia. A statistically significant increase of 4 percent was recorded for South Dakota, while a significant decrease of 4 percent was found for New Hampshire.

**Fertility rates per 1,000 women aged 15–44 years** ranged from a low of 49 (Maine and Vermont) to a high of 93 (Utah) ([table 10](#)). Rates increased in 34 States, the Virgin Islands, and American Samoa, declined in 13 States, the District of Columbia, Puerto Rico, Guam, and the Northern Marianas; the rate was unchanged in three States. Changes in most States were no more than 2 percent and were not statistically significant in 31 States, the District of Columbia, the Virgin Islands, and American Samoa. Significant increases of 4 percent each were reported for Colorado and South Dakota.

State-specific **total fertility rates** (TFR’s) for 1999 are shown in [table 10](#). These rates provide a summary measure of lifetime fertility at the State level; rates for 1980, 1990, and 1996–98 have been published (17–21). Rates by State for 1999 vary substantially, from a low of 1,570.0 (or 1.57 births per woman) for Vermont to a high of 2,745.5 (2.75 births per woman) for Utah. Differences in the TFR and changes between 1998 and 1999 by State are quite similar to those in the general fertility rate.

## Birth rates for teenagers

Birth rates for teenagers by age group and State are shown for 1999 in [table 10](#) and [table B](#). Rates per 1,000 women aged 15–19 years ranged by State from 24.0 (New Hampshire) to 72.5 (Mississippi). The highest rate was reported for Guam, 96.6. Birth rates for teenagers have been declining in the United States since 1991. Teenage birth rates were lower in 1999 than in 1998 in all but seven States and American Samoa. However, the overall trend for the 1990’s was downward: Rates for 1999 were lower than for 1991 in all States, the District of Columbia, Puerto Rico, and the Virgin Islands; declines were statistically significant in all States, the District of Columbia, and the Virgin Islands. There was a nonsignificant increase in Guam ([table B](#)). Declines exceeded 30.0 percent in 5 States, and exceeded 25.0 percent in 9 States, the District of Columbia, and the Virgin Islands. More detailed information on current trends and variations in State-specific teenage birth rates by age, race, and Hispanic origin is presented in a recent report (7).

## Sex ratio

The relative number of births by sex is important because it affects population change. There were 2,026,854 male live births in 1999 compared with 1,932,563 female live births yielding a sex ratio at birth of 1,049 males per 1,000 females, compared with 1,047 in 1998 ([tables 13 and 14](#)). The annual sex ratio has changed very little over the last 50 years. Nevertheless, substantial differences exist in the sex ratios by race and ethnic group (22). Similar to previous years, Asian or Pacific Islander mothers, as a group, had the highest sex ratio (1,064). The sex ratios for the Asian or Pacific Islander subgroups, excluding Hawaiian, exceeded 1,060. The sex ratio for Hispanic mothers (1,041), as a group, was intermediate between non-Hispanic white mothers (1,055) and non-Hispanic black mothers (1,032). Finally, American Indian mothers had the lowest sex ratio (1,029).

## Month of birth

In 1999 August was the month with the most frequent occurrence of births while February was the month with the least frequent occurrence of births ([table 15](#)). The average number of births per month was 329,951. Standardizing the number of births for the number of days of the month, September had the highest average number of births per month. January had the lowest average number of births per month.

The observed monthly birth rates for 7 months of 1999 were below the rates for the same months in 1998. For 3 months, the birth rates were above those of the previous year. When seasonal variation is filtered from the monthly birth and fertility rates, an estimate of the underlying trends in these rates is obtained. The seasonally adjusted birth rates for 6 months were lower in 1999 than for the same months in 1998. Of these, December had the lowest seasonally adjusted birth rate in at least 4 years. As in 1998, the seasonally adjusted birth rates for January, May, and July were the lowest since 1976.

**Table B. Birth rates for teenagers 15–19 years by State, 1991 and 1999, and percent change, 1991–99: United States and each State and territory**

[Birth rates per 1,000 estimated female population aged 15–19 years in each area]

| State                      | 1991  | 1999 | Percent change, 1991–99 | State             | 1991 | 1999 | Percent change, 1991–99 |
|----------------------------|-------|------|-------------------------|-------------------|------|------|-------------------------|
| United States <sup>1</sup> | 62.1  | 49.6 | -20.1                   | Nebraska          | 42.4 | 37.0 | -12.7                   |
| Alabama                    | 73.9  | 62.8 | -15.0                   | Nevada            | 75.3 | 64.1 | -14.9                   |
| Alaska                     | 65.4  | 41.8 | -36.1                   | New Hampshire     | 33.3 | 24.0 | -27.9                   |
| Arizona                    | 80.7  | 69.6 | -13.8                   | New Jersey        | 41.6 | 32.8 | -21.2                   |
| Arkansas                   | 79.8  | 68.1 | -14.7                   | New Mexico        | 79.8 | 67.4 | -15.5                   |
| California                 | 74.7  | 50.7 | -32.1                   | New York          | 46.0 | 37.0 | -19.6                   |
| Colorado                   | 58.2  | 48.4 | -16.8                   | North Carolina    | 70.5 | 59.5 | -15.6                   |
| Connecticut                | 40.4  | 33.3 | -17.6                   | North Dakota      | 35.6 | 27.7 | -22.2                   |
| Delaware                   | 61.1  | 54.3 | -11.1                   | Ohio              | 60.5 | 46.0 | -24.0                   |
| District of Columbia       | 114.4 | 83.5 | -27.0                   | Oklahoma          | 72.1 | 60.5 | -16.1                   |
| Florida                    | 68.8  | 53.5 | -22.2                   | Oregon            | 54.9 | 46.5 | -15.3                   |
| Georgia                    | 76.3  | 65.1 | -14.7                   | Pennsylvania      | 46.9 | 36.2 | -22.8                   |
| Hawaii                     | 58.7  | 43.8 | -25.4                   | Rhode Island      | 45.4 | 38.2 | -15.9                   |
| Idaho                      | 53.9  | 43.7 | -18.9                   | South Carolina    | 72.9 | 60.8 | -16.6                   |
| Illinois                   | 64.8  | 51.1 | -21.1                   | South Dakota      | 47.5 | 37.6 | -20.8                   |
| Indiana                    | 60.5  | 51.6 | -14.7                   | Tennessee         | 75.2 | 62.7 | -16.6                   |
| Iowa                       | 42.6  | 35.8 | -16.0                   | Texas             | 78.9 | 70.1 | -11.2                   |
| Kansas                     | 55.4  | 47.4 | -14.4                   | Utah              | 48.2 | 40.2 | -16.6                   |
| Kentucky                   | 68.9  | 56.4 | -18.1                   | Vermont           | 39.2 | 25.7 | -34.4                   |
| Louisiana                  | 76.1  | 62.8 | -17.5                   | Virginia          | 53.5 | 42.7 | -20.2                   |
| Maine                      | 43.5  | 29.8 | -31.5                   | Washington        | 53.7 | 40.1 | -25.3                   |
| Maryland                   | 54.3  | 42.6 | -21.5                   | West Virginia     | 57.8 | 47.9 | -17.1                   |
| Massachusetts              | 37.8  | 28.7 | -24.1                   | Wisconsin         | 43.7 | 35.7 | -18.3                   |
| Michigan                   | 59.0  | 40.5 | -31.4                   | Wyoming           | 54.2 | 40.4 | -25.5                   |
| Minnesota                  | 37.3  | 30.0 | -19.6                   | Puerto Rico       | 72.4 | 72.0 | -0.6**                  |
| Mississippi                | 85.6  | 72.5 | -15.3                   | Virgin Islands    | 77.9 | 55.2 | -29.1                   |
| Missouri                   | 64.5  | 49.6 | -23.1                   | Guam              | 95.7 | 96.6 | 0.9**                   |
| Montana                    | 46.7  | 35.1 | -24.8                   | American Samoa    | ---  | 46.4 | ---                     |
|                            |       |      |                         | Northern Marianas | ---  | 62.0 | ---                     |

\*\* Not significant at  $p < .05$ .

--- Data not available.

<sup>1</sup>Excludes data for the territories.

### Day of the week of birth

The average number of births on any given day in 1999 was 10,848 (table 16). However, there was considerable variation in the number of births by day of the week. For the most frequent day of birth, Tuesday, the average was 12,424 while for the least frequent day, Sunday, the average was 7,731.

Variation in the daily pattern of births can also be measured by an index of occurrence. The index is defined as the ratio of the average number of births for a particular day of the week to the average daily number of births for the year with the base set at 100. In 1999 the index for Sunday was 71.3, an indication that there were 28.7 percent fewer births on Sundays than the daily average. The index for Saturday was 79.8. As in past years, Tuesdays had the highest index in 1999, 114.5.

A weekend deficit is apparent for vaginal and cesarean deliveries, but is far greater for cesarean deliveries, particularly repeat cesareans. In 1999 the Sunday index for vaginal births was 76.6, compared with 62.3 for primary cesareans, and 36.4 for repeat cesareans.

### Births to unmarried women

The birth rate for unmarried women rose very slightly in 1999 to 44.4 births per 1,000 unmarried women aged 15–44 years, compared with 44.3 in 1998; the 1999 rate was still 5 percent lower than its highest level, 46.9 in 1994. The number of births to

unmarried women increased 1 percent to 1,308,560 in 1999. Most of the 4-percent increase in the number since 1997 is due to the concurrent 3-percent growth in the population of unmarried women (23). The percent of all births occurring to unmarried women rose to 33.0 in 1999 from 32.8 percent in 1998. (See tables C, 17, and 19.)

There were no changes in 1999 in the procedures for reporting the mother's marital status, a factor that affected trends earlier in the decade. Details of earlier changes in reporting practices are described in the Technical notes and elsewhere (24). In 1999 all States except for Michigan and New York reported the mother's marital status through a direct question on the birth certificate or in the electronic birth registration process. Michigan and New York inferred the mother's marital status on the basis of other information on the birth certificate; see Technical notes.

Birth rates for unmarried women vary considerably by race and Hispanic origin. In 1999 the rates per 1,000 unmarried women were 27.9 per 1,000 for non-Hispanic white women, 71.5 for black women, and 93.4 for Hispanic women. The birth rate for unmarried black women has declined steadily since 1989 (90.7), by 21 percent overall; the 1999 rate is at its lowest point since 1969 when data for black women became available (24). The birth rate for unmarried non-Hispanic white women was essentially stable in 1999, while the rate for Hispanic women rose 4 percent.

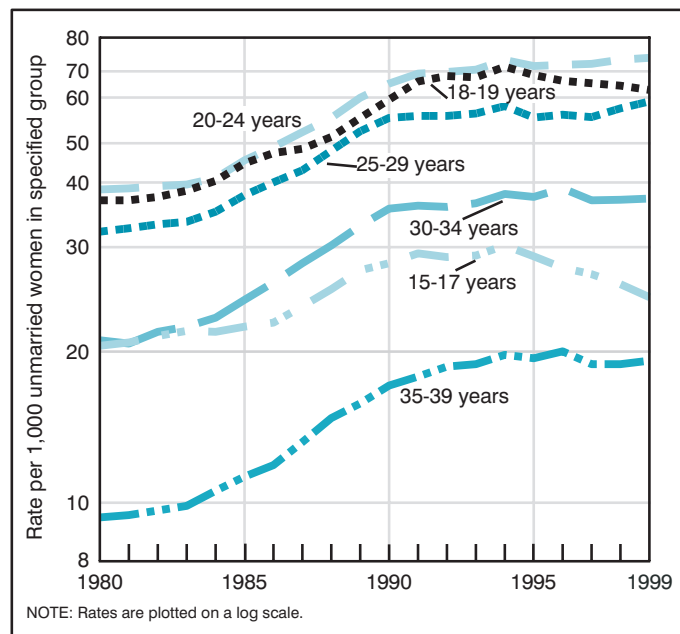


**Table C. Number, rate, and percent of births to unmarried women, and birth rate for married women: United States, 1980 and 1985–99**

| Year | Births to unmarried women |                   |                      | Birth rate for married women <sup>3</sup> |
|------|---------------------------|-------------------|----------------------|---|
|      | Number                    | Rate <sup>1</sup> | Percent <sup>2</sup> |   |
| 1999 | 1,308,560                 | 44.4              | 33.0                 | 86.5                                      |
| 1998 | 1,293,567                 | 44.3              | 32.8                 | 85.7                                      |
| 1997 | 1,257,444                 | 44.0              | 32.4                 | 84.3                                      |
| 1996 | 1,260,306                 | 44.8              | 32.4                 | 83.7                                      |
| 1995 | 1,253,976                 | 45.1              | 32.2                 | 83.7                                      |
| 1994 | 1,289,592                 | 46.9              | 32.6                 | 83.8                                      |
| 1993 | 1,240,172                 | 45.3              | 31.0                 | 86.8                                      |
| 1992 | 1,224,876                 | 45.2              | 30.1                 | 89.0                                      |
| 1991 | 1,213,769                 | 45.2              | 29.5                 | 89.9                                      |
| 1990 | 1,165,384                 | 43.8              | 28.0                 | 93.2                                      |
| 1989 | 1,094,169                 | 41.6              | 27.1                 | 91.9                                      |
| 1988 | 1,005,299                 | 38.5              | 25.7                 | 90.8                                      |
| 1987 | 933,013                   | 36.0              | 24.5                 | 90.0                                      |
| 1986 | 878,477                   | 34.2              | 23.4                 | 90.7                                      |
| 1985 | 828,174                   | 32.8              | 22.0                 | 93.3                                      |
| 1980 | 665,747                   | 29.4              | 18.4                 | 97.0                                      |

<sup>1</sup>Births to unmarried women per 1,000 unmarried women aged 15–44 years.<sup>2</sup>Percent of all births to unmarried women.<sup>3</sup>Births to married women per 1,000 married women aged 15–44 years.

**Birth rates for unmarried women by age** continue to be highest for women aged 18–19 and 20–24 years, followed closely by women aged 25–29 years (figure 3). Rates for younger teenagers and women in age groups 30 years and over are considerably lower (tables 17 and 18). Among teenagers and women aged 20–24 years, rates for unmarried black and Hispanic women on average were 2 to 3 times the rates for non-Hispanic white women in the same age groups. Among age groups 25–29 years and over, rates were considerably higher for Hispanic women than for black or non-Hispanic white women.

**Figure 3. Birth rates for unmarried women, by age of mother: United States, 1980–99**

Age-specific birth rates for unmarried women declined only for teenagers in 1999, a pattern that has generally been observed since 1994. During the 1994–99 period, the rates for unmarried teenagers 15–17 and 18–19 years declined 20 and 10 percent, respectively. Since 1994, rates have fallen considerably for young black, non-Hispanic white, and Hispanic teenagers aged 15–17 years, by 31, 19, and 11 percent, respectively.

The birth rate for unmarried women aged 20–24 years rose about 1 percent, whereas the rate for women aged 25–29 years increased 3 percent. These increases brought the rates for women in their twenties to record highs in 1999. The birth rate for unmarried women aged 30–34 years rose less than 1 percent in 1999, while the rate for women in their late thirties increased 2 percent. The rate for women aged 40–44 years was unchanged in 1999. Increases for women in age groups 20–24 through 35–39 years were substantial for Hispanic women.

The **proportion of all births occurring to unmarried women** increased to 33.0 percent in 1999, compared with 32.8 percent in 1998. The proportions for subgroups in 1998 were 22.1 percent, non-Hispanic white; 69.1 percent, non-Hispanic black; and 42.2 percent, Hispanic; these proportions have risen since the mid 1990's for non-Hispanic white and Hispanic births, but have declined slightly for non-Hispanic black births (see tables 13, 14, 17, and 19 for 1999 data) (24).

Changes in the proportion of births to unmarried women are affected by trends in births and birth rates for married as well as unmarried women (table C). The proportion of births to unmarried women has changed relatively little since 1994 because of compensating changes in these measures as well as in the population of unmarried women (23). However, the increases in the number of unmarried women and their birth rate were larger than the increases in marital fertility. Thus, the proportion of births to unmarried women inched up again in 1999 (24).

The **numbers and proportions of births to unmarried women by State** and by race and Hispanic origin for 1999 are shown in table 19 for the 50 States and the District of Columbia, and each territory. Increases in the numbers and proportions far outpaced declines overall. The numbers increased in 36 States, and declined in 14 States and the District of Columbia. The numbers in the territories declined except for increases in Puerto Rico and American Samoa. The proportion increased in 33 States, Puerto Rico, Guam, American Samoa, and the Northern Marianas, declined in 14 States, the District of Columbia, and the Virgin Islands, and was unchanged in three States.

### Age of father

The **birth rate per 1,000 men aged 15–54 years** was 50.8 in 1999 (table 20). This was slightly lower than the rate in the past year but higher than in 1997. Birth rates increased for men in age groups 25–44 years, remained stable for men in age groups 45 years and over, and decreased for men in the age groups under 25 years.

The mean age of fathers in 1999 was 29.7 years, essentially unchanged from 1997 and 1998 (tabular data not shown). In general, Asian or Pacific Islander fathers as a group were the oldest (32.6 years) with only 2 percent less than 20 years of age. The mean ages of non-Hispanic white fathers and black fathers were 30.9 and 29.0 years, respectively; 3 percent of white fathers and 7 percent of black fathers were teenagers. American Indian fathers were the youngest (28.3

years) with 8 percent less than 20 years of age. Finally, the mean age of Hispanic fathers was 28.4 years with 7 percent less than 20 years of age.

Information on age of father is often missing on birth certificates of children born to unmarried women and women less than 30 years of age (24). In 1999 age of father was not reported for 14 percent of all births but for 40 percent of all nonmarital births. In computing birth rates by age of father, births where age of father is not stated were distributed in the same proportion as births where age of father is stated within each 5-year age interval of mother. This procedure avoids the distortion in rates that would result if the relationship between age of mother and age of father were disregarded. The procedures for computing birth rates by age of father are described in more detail in the [Technical notes](#).

## Educational attainment

The educational attainment of women who give birth is important because higher educational attainment is associated with more timely receipt of prenatal care and fewer lifestyle and health behaviors during pregnancy that are detrimental to birth outcome (discussed in later sections).

Data from the birth certificate show that the educational attainment of women who gave birth increased substantially over the last few decades, partly reflecting the increases in educational attainment of all women during the time period (25). More than three-fourths of women who gave birth in 1999 had 12 or more years of schooling (78 percent), and 24 percent had 16 or more years of formal schooling ([table 21](#)). The percent of mothers with at least 12 years of schooling generally increased over the range of age, to about 90 percent for women who gave birth in their thirties and then slightly decreased for mothers 40 years of age and over (89 percent). The percent of mothers with at least 16 years of formal schooling was highest for women 35 years of age and over (44 percent). The median educational attainment for all mothers in 1999 was 12.9 years.

In general, Japanese and Filipino mothers were the most likely to have completed 12 years of school—98 percent and 94 percent, respectively ([table 13](#)). Eighty-seven percent of non-Hispanic white mothers compared with 74 percent of non-Hispanic black mothers and 51 percent of Hispanic mothers had completed high school ([table 14](#)). Although the overall proportion of Hispanic mothers with at least 12 years of schooling was low, there was considerable variation among Hispanic subgroups, ranging from 45 percent of Mexican mothers to 88 percent of Cuban mothers. More than two-thirds of American Indian mothers had 12 or more years of schooling (68 percent). Finally, 31 percent of non-Hispanic white mothers had at least 16 years of school compared with 11 percent of non-Hispanic black mothers and 7 percent of Hispanic mothers.

## Maternal lifestyle and health characteristics

### Weight gain

Maternal weight gain is one of the components in the complex relationship between lifestyle characteristics of the mother and the development of the fetus (26). In 1990 the National Academy of Sciences published weight-gain guidelines that varied according to mother's body mass index (BMI), which is calculated from her

prepregnancy weight and height. The guidelines recommend that women who are underweight (low BMI) gain 28 to 40 pounds, those who are of normal weight (average BMI) gain 25 to 35 pounds, those who are overweight (high BMI), gain 15 to 25 pounds, and obese women, gain not more than 15 pounds (27).

Information on maternal weight gain is collected on the birth certificate, but information on the mother's prepregnancy weight and height is not. Therefore, it is not possible to determine whether the weight gain was within the recommendations for the mother's BMI. Differences between subgroups in maternal weight gain may reflect differences in the proportion of mothers who gained outside the recommended range but could also be the result of group differences in maternal height and prepregnancy weight.

In 1999 all States except California reported information on weight gain. Births to mothers residing in these States accounted for 87 percent of all births in the United States. In 1999, the majority of women (64 percent) gained 26 pounds or more during pregnancy ([table 22](#)). The **median weight gain** in 1999 was 30.5 pounds and it has changed very little in the last 10 years. Despite the consistency of the median weight gain, the percent of mothers who gained at either end of the weight gain spectrum was higher in 1999 than in 1989—weight gains of less than 16 pounds increased from 9.4 percent in 1989 to 11.8 percent in 1999 while weight gains of 46 pounds or more increased from 9.1 percent in 1989 to 12.0 percent in 1999.

The **weight gain of the mother during pregnancy varied considerably by period of gestation**. Mothers who had preterm infants (gestations of under 37 completed weeks) gained 3 pounds less during pregnancy (27.9 pounds) than mothers who had babies with gestations of 40 weeks and over (30.9 pounds). The median weight gain for non-Hispanic white women (30.8 pounds) was about a pound higher than for either non-Hispanic black women (30.0 pounds) or Hispanic women (29.8 pounds).

The percent of non-Hispanic black mothers who had weight gains of less than 16 pounds (17.1 percent) was much higher than for Asian or Pacific Islander (API) (9.7 percent) and non-Hispanic white mothers (10.2 percent) while American Indian mothers were intermediate (15.9 percent) ([tables 24 and 25](#)).

Within Hispanic subgroups, the percent of Mexican mothers who gained less than 16 pounds (15.0 percent) was more than twice that of Cuban mothers (7.1 percent) while the remaining groups were intermediate ([table 25](#)).

**Maternal weight gain has been shown to have a positive correlation with the birthweight of the infant** (28). This relationship is substantiated by the data in [table 23](#). The percent of infants with low birthweight dropped steadily with increasing weight gain through 36 to 40 pounds, from 13.9 to 5.2 percent, remained steady at 5.2 percent for women who gained 41 to 45 pounds, and then increased slightly for mothers who gained 46 pounds or more (5.5 percent). The general decline in the percent low birthweight with greater maternal weight gain is present for non-Hispanic white, non-Hispanic black, and Hispanic women regardless of the period of gestation.

### Medical risk factors

Maternal medical risk factors have a major influence on pregnancy complications and infant survival (29–31). Some of these conditions require close medical supervision to prevent severe complications. Sixteen medical risk factors that can affect pregnancy outcome are separately identified on the birth certificate ([table 26](#)).

In 1999 the most frequently reported medical risk factors were **pregnancy-associated hypertension** (38.2 per 1,000 live births), **diabetes** (27.3) and **anemia** (23.2) ([table 26](#)). These have been the most frequently reported risk factors since 1990, and their rates have risen steadily. Pregnancy-associated hypertension increased by 40 percent; the rates for diabetes and anemia increased by 28 and 27 percent, respectively. The pregnancy-associated hypertension rate rose among the majority of racial and ethnic groups during the 1990's. Rates for the related hypertensive disorders, **chronic hypertension** and **eclampsia**, have been relatively stable during this decade.

Overall, and for the majority of racial and ethnic groups, the reported rate of **hydramnios/oligohydramnios** (the excess or shortage of amniotic fluid) has consistently increased each year since 1990, and has more than doubled between 1990 and 1999 (from 5.9 to 13.5 per 1,000). These conditions have been associated with diabetes (32, 33). Acute or chronic **lung disease** (e.g., asthma, tuberculosis) has exhibited an even more dramatic upward trend. Although lung disease is reported in only 1 percent of all pregnant women, the level of lung disease has more than tripled overall between 1990 and 1999 (from 3 to 11 per 1,000).

Medical risk factors during pregnancy vary greatly by **race and ethnicity** ([tables 27 and 28](#)). Since 1992, American Indian women have consistently had the highest rates of pregnancy-associated hypertension, diabetes, and anemia, comprising about 5 percent of all American Indian pregnancies for each condition. In comparison, during the same time period, only about 1 percent of Chinese mothers had pregnancy-associated hypertension or anemia. Among the Hispanic subgroups, in 1999 Cuban mothers had the lowest rates of anemia and diabetes (1 and 2 percent each, respectively).

Medical risk factor rates also often differ widely by maternal age ([table 26](#)). Anemia, for example, is more common among younger mothers (33 per 1,000 for mothers under 20 years of age compared with 18 for mothers 40 years of age and over). Older mothers, conversely, are more prone to chronic conditions such as diabetes (65 per 1,000 for mothers 40 years and over compared with 8 per 1,000 for mothers under 20 years of age). Some risk factors, however, such as pregnancy-associated hypertension, follow a U-shaped pattern, with the highest levels at the extremes of the maternal age distribution.

Rates for rarely occurring medical risk factors and for smaller population groups can vary widely from year-to-year and should be used with caution. Some of the apparent increases since 1990 may be an artifact of improved reporting. Other issues to be considered in evaluating the completeness of reporting include the diversity of the risk factors, their temporal and causal sequence in the pregnancy, and factor specific underreporting (34, 35). Medical risk factors may be incorrectly reported due to lack of uniform definitions and difficulty in interpreting data from medical records (36).

## Tobacco use during pregnancy

**Smoking during pregnancy declined again to 12.6 percent of women giving birth in 1999**, according to birth certificate data. This was a 2-percent drop compared with 1998 (12.9 percent), and a 35-percent reduction since 1989 (19.5 percent), when this information first became available on the birth certificate (21, 37). Beginning in 1999, data on whether or not the mother smoked during pregnancy is available for all States and the District of Columbia, except for California and South Dakota. This reporting area comprised 87

percent of U.S. births in 1999. (See [tables 24, 25, and 29–32](#).) Additional information on the reporting areas is included in the [Technical notes](#).

Some studies have suggested that smoking may be underreported on birth certificates due to a variety of factors, including the lack of a specific time reference for smoking status, variations in the source of this information for each birth, and the growing stigma associated with smoking (37–40). Nevertheless, trends in maternal smoking based on the birth certificate are generally consistent with those reported for recent years from the National Survey of Family Growth and more recently from CDC's Behavioral Risk Factor Surveillance Summary, and variations in smoking among population subgroups found in birth certificate data have been corroborated in other studies (13, 41–43).

Tobacco use during pregnancy is associated with a variety of adverse outcomes, including increased risk of miscarriage, intrauterine growth retardation, low birthweight, and infant mortality, as well as negative consequences for child health and development (44–47).

**Maternal smoking declined or was unchanged in all racial and Hispanic origin groups.** As in previous years, rates were highest for non-Hispanic white, American Indian, and Hawaiian women, and lowest for Mexican, Cuban, Central and South American, and Asian or Pacific Islander women (API) (except Hawaiian) ([tables 24 and 25](#)). The generally very low smoking rates found for Mexican, Central and South American, Chinese, and Filipino women from birth certificate data have been confirmed elsewhere (42). Smoking rates tend to be dramatically higher for women born in the 50 States and the District of Columbia than for women born outside these areas, a pattern that has been described in other studies ([tables 24 and 25](#)) (48, 49).

**Maternal smoking among teenagers rose about 2 percent overall**, the fifth consecutive year of increase, with all of the 1998–99 increase confined to older teenagers (up from 19.2 to 19.5 percent) ([figure 4](#)) (37). Between 1994 and 1996, smoking rates rose for younger teenagers 15–17 years as well as older teenagers. Since 1996, rates for young teenagers have been stable, whereas rates for older teenagers have risen 7 percent.

Smoking rates increased among non-Hispanic white and black teenagers 15–19 years in 1999; the rate for Hispanic teenagers declined to 4.6 percent. The smoking rate for non-Hispanic black teenagers was 7.2 percent in 1999, compared with 5.0 percent in 1994 when the rate began to rise (see [table 30](#) for 1999 data.) The rate for non-Hispanic white teenagers increased to 30.1 percent; their rates were 4 to 5 times the rates for non-Hispanic black teenagers. Non-Hispanic white women aged 18–19 years had the highest smoking rate of any group, 30.7 percent, but the rate for younger non-Hispanic white teenagers was nearly as high, 28.7 percent ([table 30](#)).

The increase over the period 1994–99 in smoking among teenagers, especially older teenagers, has begun to impact rates for women in their early twenties, as older teenagers have turned 20 years and over. **Smoking rates for women aged 20–24 years increased in 1999** for the first time since this information first became available in 1989. Overall, the rate rose 1 percent to 16.7 percent, with increases measured for non-Hispanic white and black women, and Puerto Rican and Cuban women. The rate declined for Mexican women.

Smoking during pregnancy generally declined for women in age groups 25–54 years. Patterns of smoking rates and trends by age, race, and Hispanic origin are described in detail elsewhere (37).

Among smokers, **the proportion smoking at least half a pack of cigarettes daily** has declined steadily in recent years—to 30 percent

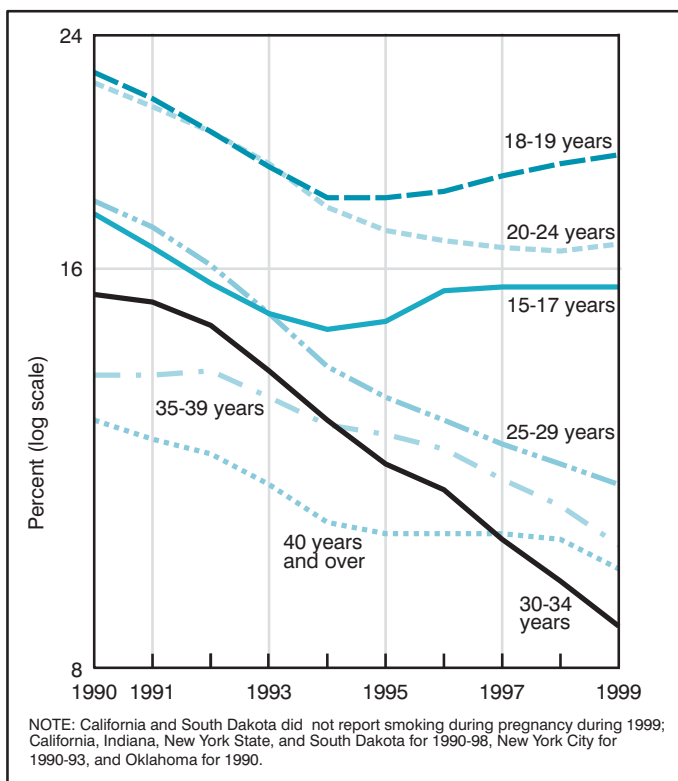


Figure 4. Percent of mothers who smoked during pregnancy by age: Total reporting areas, 1990-99

in 1999 (compared with 42 percent in 1990) (37). Information on the number of cigarettes smoked daily was reported in a comparable manner on the birth certificates of 46 States, the District of Columbia and New York City in 1999, comprising 81 percent of U.S. births. Non-Hispanic white mothers and older mothers are more likely than other mothers to smoke half a pack or more (tables 29 and 31).

**Smoking rates by maternal educational attainment** continue to be highest for women with 9-11 years of education, 26 percent in 1999, and lowest for women with 4 years or more of college, 2 percent (table 31). Even among women aged 20 years and over, smoking rates were highest for mothers who attended but did not graduate from high school—29 percent overall and 48 percent of non-Hispanic white women (tabular data not shown).

**Babies born to mothers who smoke during pregnancy are at greatly elevated risk of low birthweight (LBW)**, a finding documented in birth certificate data as well as in numerous other studies (44, 51). In 1999, 12.1 percent of infants born to smokers weighed less than 2,500 grams (5 lb 8 oz) compared with 7.2 percent of births to nonsmokers (table 32). This substantial differential is found for every race and Hispanic origin group. Heavier smoking heightens the LBW risk, although LBW is elevated even among babies born to the lightest smokers (1 to 5 cigarettes daily), 11.1 percent (tabular data not shown) (50). Advancing maternal age exacerbates the risk, probably a consequence of the much greater cigarette consumption among older women (table 29).

**Alcohol use during pregnancy**

Pregnancy and birth outcome can be jeopardized by maternal alcohol use during pregnancy. Even low to moderate alcohol use has

been shown to jeopardize birth outcome, independent of other risk factors such as tobacco use and other maternal risk factors (52, 53). All States except California and South Dakota included items on alcohol use on their birth certificates in 1999. This reporting area accounted for 87 percent of U.S. births.

Alcohol use during pregnancy is substantially underreported on the birth certificate according to studies of birth certificate reporting and related surveys of pregnant women (34, 41). According to birth certificate data, alcohol use declined again in 1999 to just 1.0 percent of mothers reporting any alcohol use compared with 1.1 percent in 1998 and 4.1 percent in 1989, the first year this information was reported on the birth certificates (see tables 24 and 25 for 1999 data). A study based on an analysis of responses by about 1,300 pregnant women in the Centers for Disease Control and Prevention's Behavioral Risk Factor Surveillance System found that about 15 percent of women used alcohol during pregnancy in 1995. The researchers also reported that although alcohol use declined from 1988 (23 percent) to 1992 (10 percent), there was a statistically significant rise to 15 percent in 1995 (54).

The nature of the birth certificate questions on alcohol use apparently has contributed to the underreporting because the questions focus on the number of drinks per week, whereas other studies inquire about drinks per month (54). Women who drink, but less than one drink per week, may report no alcohol use for the birth certificate question. The stigma associated with alcohol use also contributes to the underreporting (26, 54).

**Medical services utilization**

**Prenatal care**

The percent of women who began **prenatal care in the first trimester** of pregnancy rose slightly for 1998-99, from 82.8 to 83.2. Following a decade of little progress, the proportion of women entering care within the first 3 months of pregnancy has risen each year in the 1990's. (See table D and tables 33-35 for 1999 data.) In 1999, 3.8 percent of all mothers received late or no care ("late care" is prenatal care beginning in the third trimester), compared with

Table D. First trimester prenatal care by race and Hispanic origin of mother: United States, 1980, 1985, 1990-99

| Year | All races <sup>1</sup> | Non-Hispanic |       | Hispanic <sup>2</sup> |
|------|------------------------|--------------|-------|-----------------------|
|      |                        | White        | Black |                       |
| 1999 | 83.2                   | 88.4         | 74.1  | 74.4                  |
| 1998 | 82.8                   | 87.9         | 73.3  | 74.3                  |
| 1997 | 82.5                   | 87.9         | 72.3  | 73.7                  |
| 1996 | 81.9                   | 87.4         | 71.5  | 72.2                  |
| 1995 | 81.3                   | 87.1         | 70.4  | 70.8                  |
| 1994 | 80.2                   | 86.5         | 68.3  | 68.9                  |
| 1993 | 78.9                   | 85.6         | 66.1  | 66.6                  |
| 1992 | 77.7                   | 84.9         | 64.0  | 64.2                  |
| 1991 | 76.2                   | 83.7         | 61.9  | 61.0                  |
| 1990 | 75.8                   | 83.3         | 60.7  | 60.2                  |
| 1989 | 75.5                   | 82.7         | 59.9  | 59.5                  |
| 1985 | 76.2                   | ---          | ---   | ---                   |
| 1980 | 76.3                   | ---          | ---   | ---                   |

--- Data not available.

<sup>1</sup>Includes races other than white and black and origin not stated.

<sup>2</sup>Includes all persons of Hispanic origin of any race.

3.9 percent in 1998. The percent of women with late or no care has fallen from 6.1 percent since 1990. The benefits of prenatal care to pregnancy outcome are difficult to measure (55, 56), but appropriate care can promote healthier pregnancies by managing preexisting medical conditions, providing health behavior advice, and assessing the risk of poor pregnancy outcome (57).

Small gains in timely care were reported between 1998 and 1999 for the three largest racial and ethnic groups: non-Hispanic white (from 87.9 to 88.4 percent), non-Hispanic black (from 73.3 to 74.1 percent), and Hispanic women (from 74.3 to 74.4 percent), and for most subgroups. Whereas substantial improvements in care have been observed among all groups during the 1990's, improvement has been most pronounced for groups with lower levels of timely care. Between 1990 and 1999, levels of first trimester care rose by 20 percent or more among non-Hispanic black, American Indian, Hawaiian, Mexican, Puerto Rican, and Central and South American women. (See tables E, 24, and 25.) The larger gains for these groups have resulted in some narrowing of the prenatal care gap, but large differences among groups persist.

Of the 50 States and the District of Columbia, women living in New England had the highest levels of prenatal care utilization for 1999. At least 87 percent of women who gave birth in Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, and Vermont received care in the first trimester; less than 3 percent of New England residents received late or no care (table 34).

The Adequacy of Prenatal Care Utilization Index (APNCU) is an alternative measure of prenatal care utilization developed to adjust for some of the weaknesses of the month care began and the Kessner Index (58, 59). The APNCU is based on the month that prenatal care began and the number of prenatal visits, adjusting for gestational age. For 1999 the APNCU shows an appreciable rise in the percent of women with intensive use of care (women for whom the number of visits exceeded the American College of Obstetricians and Gynecologists' recommendations by a ratio of observed to expected visits of at least 110 percent) from 31.0 to 31.6 percent. All other levels of care, that is, adequate, intermediate and inadequate, were down slightly (table F). For 1990-99, the largest changes in utilization were for intensive use of care (up 28 percent) and inadequate care (down 33 percent).

**Table F. Adequacy of Prenatal Care Utilization Index: United States, 1990, 1995-99**

|                | Intensive use | Adequate | Intermediate | Inadequate |
|----------------|---------------|----------|--------------|------------|
| 1999 . . . . . | 31.6          | 43.1     | 13.6         | 11.7       |
| 1998 . . . . . | 31.0          | 43.3     | 13.8         | 11.9       |
| 1997 . . . . . | 30.7          | 43.3     | 14.0         | 12.0       |
| 1996 . . . . . | 29.3          | 43.6     | 14.7         | 12.4       |
| 1995 . . . . . | 28.8          | 43.7     | 14.7         | 12.8       |
| 1990 . . . . . | 24.6          | 42.3     | 15.7         | 17.4       |

NOTE: See reference 58 for information on calculation of this measure; also see Technical notes of this report.

**Obstetric procedures**

Six specific obstetric procedures are reported on the birth certificate. Rates of four of these procedures have been rising steadily every year since 1989 (60, 61) (figure 5). In 1999 the most prevalent procedure, electronic fetal monitoring, was reported for nearly 3.3 million births, or 84 percent of all live births in the United States (table 36), a 15-percent increase over 1990. It has been shown that use of obstetric procedures may be underreported on the birth certificate (62-64).

At least 66 percent of mothers who had live births in 1999 received ultrasound, a 26-percent increase since 1990. The overall rates per 1,000 live births of stimulation of labor and induction of labor in 1999 were 179 (17.9 percent, a 58-percent increase since 1990) and 198 (19.8 percent, twice the 1990 levels), respectively (figure 6). As would be expected, induction rates increase with advancing gestational age, but rates have been rising for all gestation groups.

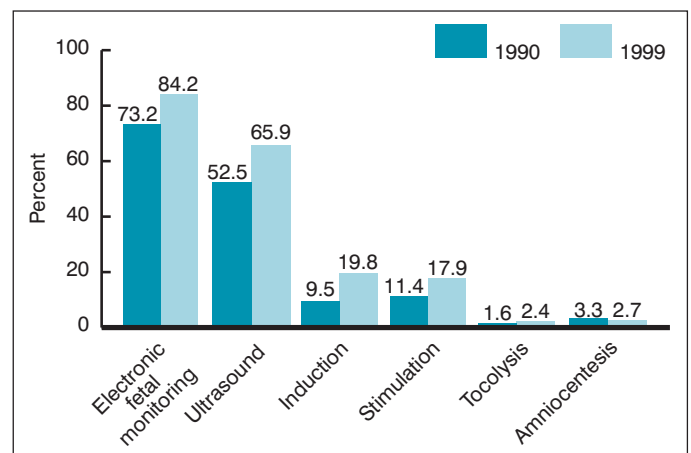
The overall rate for tocolysis has been slowly increasing, from 1.6 percent in 1990 to 2.4 percent in 1999 (a 50-percent increase). Tocolytics (agents that decrease uterine activity) are used in the management of preterm labor (33).

The overall rate for amniocentesis was 26.5 per 1,000 births (2.7 percent) in 1999, down 21 percent from 1990 (figure 5). Use of amniocentesis rises with increasing maternal age. Since 1990, amniocentesis rates have generally decreased for all age groups.

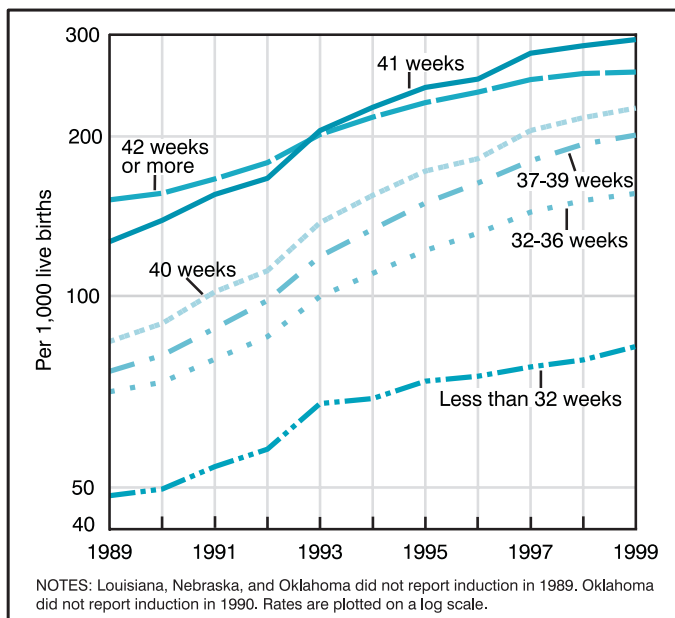
**Table E. Percent of women with care beginning in the first trimester of pregnancy by specified race and Hispanic origin of mother: United States, 1990 and 1999**

|   | Percent first trimester care |      | Percent change |
|---|------------------------------|------|----------------|
|   | 1999                         | 1990 | 1990-99        |
| Total, all races <sup>1</sup> . . . . . | 83.2                         | 75.8 | 10             |
| Cuban . . . . .                         | 91.4                         | 84.8 | 8              |
| Japanese . . . . .                      | 90.7                         | 87.0 | 4              |
| Chinese . . . . .                       | 88.5                         | 81.3 | 9              |
| Non-Hispanic white . . . . .            | 88.4                         | 83.3 | 6              |
| Filipino . . . . .                      | 84.2                         | 77.1 | 9              |
| Hawaiian . . . . .                      | 79.6                         | 65.8 | 21             |
| Puerto Rican . . . . .                  | 77.7                         | 63.5 | 22             |
| Central and South American . . . . .    | 77.6                         | 61.5 | 26             |
| Non-Hispanic black . . . . .            | 74.1                         | 60.7 | 22             |
| Mexican . . . . .                       | 73.1                         | 57.8 | 26             |
| American Indian . . . . .               | 69.5                         | 57.9 | 20             |

<sup>1</sup>Includes births to race/Hispanic origin groups not shown separately.



**Figure 5. Percent of births with selected obstetric procedures: United States, 1990 and 1999**



**Figure 6. Rates of induction of labor by length of gestation in weeks: United States, 1989–99**

**Complications of labor and/or delivery**

Of the 15 complications of labor and/or delivery reported on the birth certificate, the five most frequently reported in 1999 were meconium, moderate/heavy (55 per 1,000 live births), fetal distress (40 per 1,000), breech/malpresentation (39 per 1,000), dysfunctional labor (27 per 1,000), and premature rupture of membrane (PROM) (26 per 1,000) (table 37). It has been shown that levels of complications of pregnancy may be underreported on the birth certificate (62–64).

Although infrequent, placental complications such as abruptio placenta and placenta previa are serious events. Abruptio placenta occurred in approximately 22,000 births (6 per 1,000). Although the exact etiology is unknown, major risk factors include prior abruptio placenta and hypertension (33,65). Placenta previa occurred in approximately 12,500 births (3 per 1,000). Risk factors for placenta previa include increasing age and multiparity (33).

Rates for all complications varied among the major racial/ethnic subgroups (tables 27 and 28). Non-Hispanic black mothers had the highest rates for meconium (76 per 1,000) and fetal distress (51 per 1,000). Non-Hispanic white mothers had the highest rate of breech/malpresentation (44 per 1,000). American Indian and Cuban mothers had the highest rates of dysfunctional labor (36 and 40 per 1,000, respectively). PROM was reported most frequently for American Indian mothers (39 per 1,000). Mexican mothers had the lowest complication rates overall.

Complication rates generally varied by age, and this was notable for three of the most frequently reported complications (table 37). The highest rates of meconium, fetal distress, and PROM were reported in the youngest and oldest mothers (under 20 years and above 34 years of age).

**Attendant at birth and place of delivery**

More than 9 out of 10 births in 1999 (91.7 percent) were attended by a physician in a hospital, making this arrangement by far

the most typical (table 38). However, the percent of births with this arrangement was slightly lower in 1999 than in 1998 (91.9 percent) and has declined from 98.4 percent in 1975. For physician-attended births, 4.4 percent were by **doctors of osteopathy (DO's)** while the remaining were attended by **doctors of medicine (MD's)**. Although small, the number and percent of births attended by DO's has grown steadily since 1989, the first year data on DO's were available from the birth certificate. The percent of births attended by **midwives** increased sharply between 1975 (1.0 percent) and 1999 (7.7 percent). A recent report found that nearly all of the growth in midwife-attended births was for those in hospitals (61). About 95 percent of midwife-attended births in 1999 were by **certified nurse midwives (CNM's)**.

About 99 percent of births in 1999 were delivered in hospitals, virtually unchanged in the last several decades. The majority of out-of-hospital births were in a residence (65 percent) while 27 percent were in a **freestanding birthing center**.

About 92 percent of births to non-Hispanic white and black women were attended by a physician in a hospital compared with 90 percent of births to Hispanic women. Hispanic women were more likely to have midwife-attended hospital births (9 percent) than were either non-Hispanic white or black women (6 and 7 percent, respectively).

**Method of delivery**

The **rate of cesarean delivery** increased 4 percent between 1998 and 1999 (from 21.2 per 100 live births to 22.0) and was 6 percent higher than the recent low point in 1996 (20.7). This was the third consecutive year that the rate increased after falling each year during 1989–96 (table G and table 39). The rate in 1999 was still 4 percent lower than the rate of 22.8 in 1989, the first year this information was available on the birth certificate. The **primary cesarean rate** in 1999 (15.5 per 100 live births to women who had no previous cesarean) was 4 percent higher than in 1998 (14.9) and 6 percent higher than in 1997 (14.6). The rate had declined each year between 1989 and 1996 and remained steady between 1996 and 1997. The primary rate in 1999 was 4 percent lower than in 1989 (16.1).

**Table G. Total and primary cesarean rates and vaginal births after previous cesarean delivery rates: United States, 1989–99**

| Year           | Cesarean rate      |                      |                        |
|----------------|--------------------|----------------------|------------------------|
|                | Total <sup>1</sup> | Primary <sup>2</sup> | VBAC rate <sup>3</sup> |
| 1999 . . . . . | 22.0               | 15.5                 | 23.4                   |
| 1998 . . . . . | 21.2               | 14.9                 | 26.3                   |
| 1997 . . . . . | 20.8               | 14.6                 | 27.4                   |
| 1996 . . . . . | 20.7               | 14.6                 | 28.3                   |
| 1995 . . . . . | 20.8               | 14.7                 | 27.5                   |
| 1994 . . . . . | 21.2               | 14.9                 | 26.3                   |
| 1993 . . . . . | 21.8               | 15.3                 | 24.3                   |
| 1992 . . . . . | 22.3               | 15.6                 | 22.6                   |
| 1991 . . . . . | 22.6               | 15.9                 | 21.3                   |
| 1990 . . . . . | 22.7               | 16.0                 | 19.9                   |
| 1989 . . . . . | 22.8               | 16.1                 | 18.9                   |

<sup>1</sup>Percent of all live births by cesarean delivery.

<sup>2</sup>Number of primary cesareans per 100 live births to women who have not had a previous cesarean.

<sup>3</sup>Number of vaginal births after previous cesarean (VBAC) delivery per 100 live births to women with a previous cesarean delivery.

The rate of **vaginal birth after previous cesarean delivery (VBAC)** declined 11 percent between 1998 and 1999—from 26.3 per 100 women with a previous cesarean to 23.4. The VBAC rate has declined 17 percent between 1996 and 1999 after increasing by 50 percent between 1989 and 1996 (from 18.9 to 28.3).

Overall cesarean rates increased steadily by age of the mother and were more than twice as high for mothers 40–54 years of age (34.7) than for teenagers (15.0) ([table 40](#)). Primary cesarean rates increased with additional age after age 24 years, to 24.6 for women 40–54 years of age. VBAC rates declined with increasing age—28.1 percent of teenagers who had a previous cesarean had a VBAC delivery compared with 18.2 percent of mothers 40–54 years of age. All age groups experienced increases in their total cesarean rate between 1998 and 1999 with mothers 30 years of age and over having slightly greater percent increases than younger women. All age groups experienced declines in VBAC rates between 1998 and 1999.

Non-Hispanic black women had a higher cesarean rate in 1999 (23.2) than either non-Hispanic white women (22.1) or Hispanic women (21.2). The percent increase between 1998 and 1999 was similar for non-Hispanic white and black women, about 4 percent each, compared with a 3-percent increase for Hispanic women. The primary cesarean rate for non-Hispanic black women (16.5) was higher than the rate for non-Hispanic white women (15.7) and Hispanic women (14.0). All groups experienced increases in their primary cesarean rate from 1998 to 1999, but the percent increase for non-Hispanic white women (4 percent) was slightly higher than for non-Hispanic black and Hispanic women (3 percent each). The VBAC rate in 1999 was highest for non-Hispanic white women (24.1), lowest for Hispanic women (20.3) and intermediate for non-Hispanic black women (23.2). The VBAC rate for each group declined between 1998 and 1999 with non-Hispanic white women having a greater percent decline (12 percent) than for the other groups (between 9 and 10 percent each).

American Indian and Asian or Pacific Islander (API) mothers had lower cesarean rates (18.9 and 20.2, respectively) than either non-Hispanic white or black mothers ([tables 24 and 25](#)). With the exception of Filipino mothers, all specified API categories had lower rates of cesarean delivery than either non-Hispanic white or black mothers. The rate of cesarean delivery varied between 20.6 and 23.1 for all Hispanic subgroups except for Cuban mothers whose rate was much higher (33.2) ([table 25](#)).

There was considerable variation in cesarean rates by State with the highest rate reported for Mississippi (27.3); the rate for Puerto Rico was 37.8 ([table 41](#)). (The rate for Hawaii, apparently the lowest at 13.8, is believed to be substantially underreported; see [Technical notes](#).) There was also considerable variation in VBAC rates by State, from 36.3 in New Hampshire to 11.3 in Louisiana.

All of the selected medical risk factors in [table 42](#) were associated with overall cesarean rates that were higher than the national average. Cesarean rates for the medical risk factors ranged from 22.2 for mothers with anemia to 49.1 for mothers with eclampsia. Certain complications of labor and/or delivery are also associated with high cesarean rates. Nearly all births with cephalopelvic disproportion were cesarean deliveries (96.4) while the cesarean rates for breech/malpresentation (84.5) and placenta previa (81.7) were also very high.

The percent of births that were delivered by either forceps or vacuum extraction was 7.4 percent in 1999, 22 percent lower than the

peak of 9.5 percent in 1994 (61). Births delivered by forceps declined 58 percent between 1989 and 1999, from 5.5 to 2.3 percent. Births delivered by vacuum extraction increased from 3.5 percent in 1989 to 6.2 percent in 1996 and 1997, a 77-percent increase. However, births delivered by vacuum extraction fell 18 percent between 1997 and 1999, to 5.1 percent. When only vaginal births are considered, the percent delivered by vacuum extraction fell 17 percent between 1997 (7.8 percent) and 1999 (6.5 percent) (tabular data not shown).

## Infant health characteristics

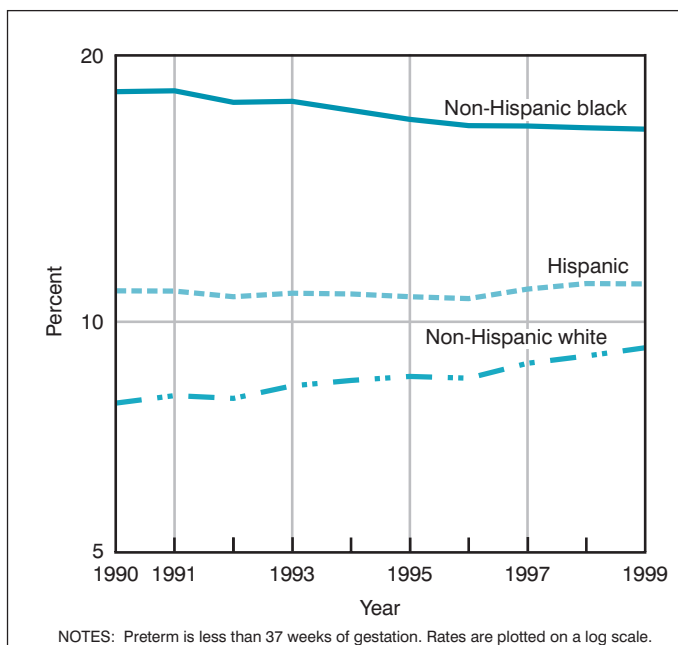
### Period of gestation

The **preterm birth rate** rose again in 1999 to 11.8 percent, from 11.6 percent in 1998. The proportion of infants born preterm (less than 37 completed weeks of gestation) has risen quite steadily during the 1990's from 10.6 percent, or by 11 percent. All of the current year rise, and most of that for the decade, has been among moderately preterm births (32–36 weeks). The rate of very preterm birth (less than 32 weeks) was stable at 1.96 percent for 1998–99 and has fluctuated only moderately since 1990. (See [tables 24, 25, 43, and 44](#).)

More than 90 percent of all neonatal deaths occur among infants born preterm; more than three-fourths of these deaths occur among those born at fewer than 32 weeks of gestation (66). Preterm newborns are also more likely to be neurologically impaired than infants born at longer gestations (67). Preterm birth results from spontaneous preterm labor, premature rupture of the membranes (PROM), or medical induction (these categories are not mutually exclusive). The rate of PROM appears to have declined slightly, but medically induced preterm births have more than doubled during the 1990's (labor may be induced preterm when the mother's or the infant's health is presumed to be at risk). (See section on Obstetric procedures and [figures 5 and 6](#).) A recent study concluded that substantial future reductions in preterm birth are unlikely until the mechanisms leading to preterm birth are better understood (67).

The incidence of preterm birth among non-Hispanic white infants climbed to 10.5 percent for 1999, compared with 10.2 percent in 1998, and 9.9 percent in 1997. Over the decade, the non-Hispanic white preterm rate has risen 24 percent (from 8.5 percent). Although this increase is influenced by the rise in the rate of multiple births (multiple births are about 6 times more likely to be born preterm than singleton births), preterm rates for singleton births have also been on the ascent (68) ([figure 7](#)). Since 1990, the non-Hispanic white singleton preterm rate has risen from 7.5 to 8.8 percent. Again, most of the rise was among moderately preterm births; the very preterm rate fluctuated only from 1.11 to 1.16 percent.

The preterm birth rate for black non-Hispanic births was unchanged for 1997–99 at 17.6 percent. This rate has declined from a high of 19.0 percent reported for 1991. Although still substantially higher than that for non-Hispanic white births, the preterm and very preterm rates for singleton non-Hispanic black births have been trending downward, albeit slowly ([figure 7](#)). The 1999 preterm rate for non-Hispanic black singleton births was 16.1 compared with 16.2 percent the previous year, and 17.9 percent in 1990. More fortuitously, very preterm births were down from 4.2 to 3.6 percent for 1990–99.



**Figure 7. Rate of singleton preterm birth by race and Hispanic origin of mother: United States, 1990–99**

The proportion of **Hispanic** preterm births was unchanged from the previous year at 11.4 percent. Over the decade, preterm singleton Hispanic births have risen slightly from 10.3 to 10.5 percent. There has been, however, essentially no change in the Hispanic rate of singleton very preterm births (1.5 percent in 1990 and 1999). Preterm rates for the Hispanic subgroups (all pluralities) ranged from 11.1 (Mexican) to 13.7 percent (Puerto Rican) for the current year. Rates for all of the subgroups increased between 1990 and 1999. (See [table 25](#) for 1999 data.)

The preterm birth rate for American Indians was 12.9 percent for 1999. Among the Asian or Pacific Islander subgroups, rates ranged from 7.6 percent for Chinese births to 12.4 percent for Filipino births ([table 24](#)). Preterm birth levels among American Indian and each Asian or Pacific Islander subgroup have also risen during the 1990's.

### Birthweight

The **percent low birthweight (LBW)** (less than 2,500 grams) was 7.6 for 1999, unchanged from 1998. LBW has been climbing fairly steadily since the mid-1980's (6.8 percent in 1985 and 1986), and has risen 9 percent (from 7.0 percent) since 1990. (See [tables 43–47](#).) The **percent very low birthweight (VLBW)** (less than 1,500 grams) was 1.45 for 1999, also unchanged from the previous year. The rate of VLBW has also risen over the last two decades, from 1.15 percent in 1980, and from 1.27 percent in 1990. Low birthweight infants disproportionately suffer long-term morbidity and early death (69). Less than half of 1 percent of infants born at weights of more than 2,499 grams do not survive the first year of life, compared with about 2 percent of moderately LBW infants (1,500 to 2,499 grams), and 25 percent of VLBW infants (66).

The upward trends in LBW and VLBW of recent years have been strongly influenced by the upsurge in the multiple birth rate; twins and triplets and other higher order multiples are comprising a growing proportion of all births and tend to be born at much lower weights than

singletons (70). In 1999, 6 percent of singletons weighed less than 2,500 grams compared with 57 percent of multiples.

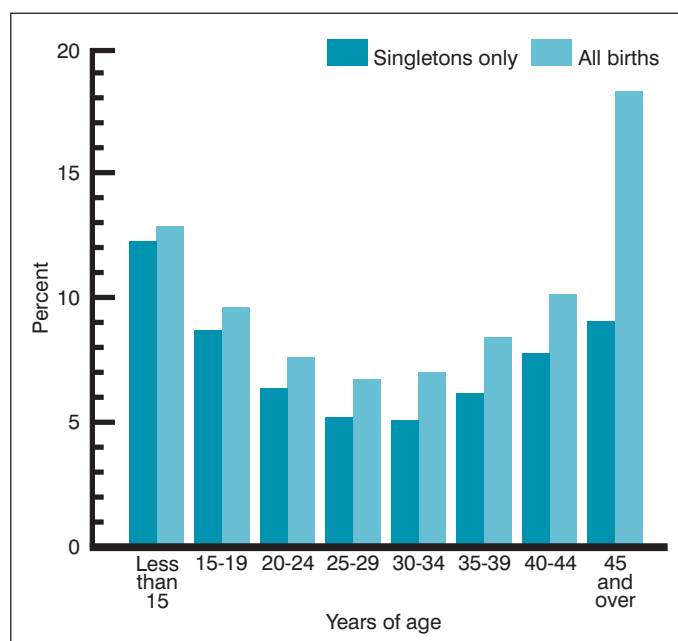
The youngest mothers (less than 15 years) and the oldest (45 years of age and over) are most likely to have a LBW infant. See [figure 8](#). Much of the low birthweight incidence among older mothers is associated with their greater preponderance of multiple births. (More than half of the LBW infants born to women 45 years of age and over in 1999 were born in a multiple birth.) When only singleton births are examined, women 45 years and over were less likely than the youngest mothers to bear a LBW child.

The impact of multiple births has been most pronounced for non-Hispanic white births, among whom multiple birth rates have risen the swiftest (70). Overall LBW for this group has climbed 18 percent, from 5.6 to 6.6 percent since 1990 ([table 44](#)). Although much of this rise can be attributed to the influence of multiple births, singleton LBW has also risen (from 4.6 to 4.9 percent); this increase is largely unexplained ([table H](#)).

Overall LBW among births to black mothers has declined from 13.3 to 13.1 percent between 1990 and 1999, but remains higher than levels reported for the early and mid-1980's (low of 12.6 percent). Singleton LBW for black infants however, has dropped to the lowest levels reported ([table H](#)). Notwithstanding this recent decline, singleton black infants are twice as likely as singleton white and Hispanic infants to be born LBW.

Overall and singleton LBW among Hispanic births has been comparatively stable over the decade, rising only slightly from 6.1 to 6.4 percent (all pluralities) and 5.2 to 5.3 percent (singletons only) between 1990 and 1999. Among the Hispanic subgroups, LBW levels ranged from 5.9 percent for Mexican to 9.3 percent for Puerto Rican births. (See [table 25](#).)

The incidence of low birthweight among **American Indian** infants was 7.1 percent for 1999. Among **Asian and Pacific Islander** subgroups LBW ranged from a low of 5.2 percent for Chinese to a high of 8.3 percent for Filipino births ([table 24](#)).



**Figure 8. Percent low birthweight for singletons and for all pluralities by maternal age: United States, 1999**



**Table H. Percent low birthweight among singletons by race and Hispanic origin of mother: United States, 1980, 1985, and 1990–99**

| Year                        | Total | White |              | Black |              | Hispanic <sup>1</sup> |
|-----------------------------|-------|-------|--------------|-------|--------------|-----------------------|
|                             |       | Total | Non-Hispanic | Total | Non-Hispanic |                       |
| 1999 . . . . .              | 6.05  | 5.02  | 4.93         | 11.32 | 11.44        | 5.34                  |
| 1998 . . . . .              | 6.05  | 5.05  | 4.91         | 11.33 | 11.44        | 5.40                  |
| 1997 . . . . .              | 6.08  | 5.02  | 4.95         | 11.37 | 11.46        | 5.43                  |
| 1996 . . . . .              | 6.03  | 5.00  | 4.90         | 11.45 | 11.55        | 5.34                  |
| 1995 . . . . .              | 6.05  | 4.98  | 4.87         | 11.59 | 11.66        | 5.36                  |
| 1994 . . . . .              | 6.05  | 4.91  | 4.79         | 11.69 | 11.79        | 5.37                  |
| 1993 . . . . .              | 6.05  | 4.83  | 4.70         | 11.81 | 11.90        | 5.34                  |
| 1992 <sup>2</sup> . . . . . | 5.93  | 4.71  | 4.59         | 11.84 | 11.91        | 5.22                  |
| 1991 <sup>2</sup> . . . . . | 5.99  | 4.74  | 4.61         | 12.09 | 12.15        | 5.29                  |
| 1990 <sup>3</sup> . . . . . | 5.90  | 4.68  | 4.56         | 11.86 | 11.92        | 5.23                  |
| 1985 . . . . .              | 5.80  | 4.77  | ---          | 11.35 | ---          | ---                   |
| 1980 <sup>4</sup> . . . . . | 5.96  | 4.90  | ---          | 11.46 | ---          | ---                   |

--- Data not available.

<sup>1</sup>Includes persons of Hispanic origin of any race.

<sup>2</sup>Excludes data for New Hampshire, which did not require reporting of Hispanic origin of mother.

<sup>3</sup>Excludes data for New Hampshire and Oklahoma, which did not require reporting of Hispanic origin of mother.

<sup>4</sup>Based on 100 percent of births in selected States and a 50-percent sample of births in all other States; see Technical notes.

NOTE: Low birthweight is less than 2,500 grams or 5 lb 8 oz.

The percent **macrosomia** (birthweight of at least 4,000 grams) declined from 10.1 to 9.9 percent between 1998 and 1999 (see [tables 24, 25 and 43](#) for 1999 data). The percent of births born at higher birthweights peaked at about 11 during the 1980's, but has declined in the 1990's.

The **median birthweight** for all births for 1999 was 3,350 grams (7 pounds, 7 ounces), unchanged since 1995. The median weight for white births was 3,390 grams and for black births 3,180 grams.

Low and very low birthweight rates vary widely **by State** ([tables 46 and 47](#)). For 1999, LBW levels among non-Hispanic white births ranged from a low of 5.2 percent in Alaska and Hawaii to a high of 8.4 percent in Wyoming. Among States with at least 1,000 births to non-Hispanic black mothers, LBW rates for this group ranged from 10.2 percent in Washington State, to 16.1 percent in the District of Columbia.

### Apgar score

The Apgar score, devised almost 50 years ago by Virginia Apgar, M.D., is a means of evaluating the physical condition of the newborn at 1 minute, 5 minutes, and if desired, at additional 5-minute intervals after delivery (32, 71, 72). The score is composed of measurements of five easily identifiable infant characteristics—heart rate, respiratory effort, muscle tone, reflex irritability, and color. Each characteristic is assessed and assigned a value of 0–2, with 2 being optimum. The total score is the sum of the scores of the five components (71). A score of 0 to 3 indicates an infant in need of resuscitation; a score in the range of 4 to 6 is considered intermediate; a score of 7 or greater indicates that the neonate is in good to excellent physical condition. The **5-minute Apgar score**, especially a change in the score between 1 and 5 minutes, is a useful clinical indicator of newborn status, especially in those neonates who require resuscitation (32).

In 1999 all States except California and Texas collected information on the 5-minute Apgar score. Of the births in the reporting States

(which accounted for 78 percent of all births in the U.S.), only 1.4 percent of babies had Apgar scores that were considered low (below 7) at 5 minutes after birth ([tables 24 and 25](#)), unchanged since 1993.

In general, the variation among racial and ethnic groups in the percent of babies with low 5-minute Apgar scores was consistent with the percent of babies that were born preterm and/or low birthweight.

### Abnormal conditions of the newborn

Since 1990, three of the eight specific abnormal conditions listed on the birth certificate have been most frequently reported: assisted ventilation less than 30 minutes, assisted ventilation of 30 minutes or longer, and hyaline membrane disease/respiratory distress syndrome (RDS) ([table 48](#)).

The rate for assisted ventilation less than 30 minutes was 21 per 1,000 in 1999. The rate slowly increased from the 1990 rate of 13 per 1,000 and has remained at about the current rate since 1996. The rate of assisted ventilation of 30 minutes or longer was 10 per 1,000 in 1999. The overall rate of hyaline membrane disease (RDS) was 6 per 1,000 in 1999; this condition occurs most frequently in infants of less than 28 weeks gestation (72).

Rates of the other conditions have fluctuated slightly each year of the decade. During the 1990's, black infants in each age group have generally had the highest rates of assisted ventilation of 30 minutes or longer, while white infants in each age group have had the highest rates of birth injury. Risk factors for birth injury include macrosomia, cephalopelvic disproportion, and breech/malpresentation (72).

It has been shown that abnormal conditions may be underreported or incorrectly reported on the birth certificate (62, 73). Some abnormalities are difficult to recognize at birth (e.g., fetal alcohol syndrome); an abnormal condition present at birth may be diagnosed after the birth certificate has been completed (74, 75).

### Congenital anomalies

Congenital anomalies are a major cause of neonatal deaths, physical defects, and metabolic diseases. For some anomalies, early ascertainment and immediate medical and surgical care is vital (72). Congenital anomalies are reported on the birth certificates of 49 States and the District of Columbia, accounting for 99 percent of 1999 births ([table 49](#)). Because many of the congenital anomalies tracked on birth certificates occur infrequently, the rates shown in this report are calculated per 100,000 live births.

Congenital anomalies are underreported on the birth certificate (62, 76, 77). A number of factors limit complete reporting of such conditions, including recognizability and severity (62, 78–80). Serious malformations are more likely to be reported. Caution should also be used in comparing yearly rates for a specific anomaly as a small change in the number of anomalies reported can result in a relatively large change in rates.

Cleft lip/palate was reported at a rate of 81 per 100,000 births in 1999 compared with 88 in 1990. The rate of clubfoot has changed little during the 1990's and was 56 per 100,000 in 1999. The rate of Down's syndrome has generally been stable since 1993 (45.5 per 100,000 in 1999) ([table 49](#)).

In 1992 the U.S. Public Health Service recommended that women of childbearing age increase consumption of the vitamin folic acid to

prevent spina bifida and anencephalus. Four years later, the Food and Drug Administration mandated that by January 1998 all cereal grain products be fortified with folic acid. In 1999 survey results showed increased folate status among women of childbearing age (81,82). The rate of spina bifida/meningocele has steadily declined from the 1995 rate of 28.1 per 100,000 to 20.1. Since 1994, the rate of anencephalus has ranged between 11 (1994 and 1999) and 13 per 100,000 (1996–97).

For many anomalies, rates vary widely with maternal age (table 49). For example, rates for Down's syndrome and heart malformations have consistently been higher for mothers aged 35 years and over, according to birth certificate data in the 1990's.

## Multiple births

The number of births in twin deliveries continued to climb in 1999, rising 3 percent to 114,307 births. The twin birth rate (the number of twin births per 1,000 live births) was also up for 1998–99, rising 3 percent, to 28.9 per 1,000 births. Since 1980 the number of twins has risen 67 percent (from 68,339), and the twin birth rate by 53 percent (from 18.9) (70). (See table 50 for 1999 data.)

Reversing a long-time trend, the number and rate of triplet and other higher order multiple births (triplet/+) dropped by 4 percent for 1999 to 7,321, or 184.9 triplet/+ births per 100,000 live births. Declines in all of the higher-order pluralities, that is, triplets, quadruplets, and quintuplet and other higher order multiples, were reported (table J). The number and rate of triplet/+ had been escalating rapidly since 1980, soaring from 1,337 births and a rate of only 37.0 (70). (See figure 9.)

The extraordinary rise in multiple births over the last two decades, especially in triplet/+ births, has been associated with two related trends; advances in, and greater access to assisted reproductive medicine (i.e., ovulation-inducing drugs and assisted reproductive techniques (ART) such as *in vitro* fertilization (IVF)), and with the older age of childbearing (women in their thirties are more likely to have a multiple birth even without the help of fertility therapies) (83–85). A recent study estimated that the majority of triplet/+ births in 1997 were the result of ART (43 percent) and ovulation-inducing drugs (38 percent)—only about 20 percent of triplet/+ births were spontaneously conceived (86).

There was a pronounced decline in triplet/+ births to non-Hispanic white women (262.8 to 251.8 per 100,000 births for 1998–99), but the sudden decline for 1999 was not observed among all age and racial/ethnic groups; women 35–39 years of age were more likely to have a triplet/+ birth in 1999 compared with 1998, as were non-Hispanic black (95.2 for 1999) and Hispanic women (76.3 for 1999). Although some reduction in the overall number and rate of triplet/+ births is expected as the population of women aged 30 years and over declines, the sudden downturn in age-specific triplet/+ birth rates may signal a more fundamental shift. In 1999 The American College of Obstetricians and Gynecologists and The American Society of Reproductive Medicine issued recommendations to help prevent triplet/+ births because they are at elevated risk of poor outcomes (87, 88). Recent refinements to fertility-enhancing therapies, particularly to IVF, which lower the risk of multifetal pregnancy, also may affect the future incidence of "multiple multiples" (87–90).

Twin birth rates rose between 1998 and 1999 for nearly all age groups, and for non-Hispanic white (31.5 per 1,000) and non-Hispanic black women (32.1). A small decline in the twinning rate for Hispanic women was reported (20.1).

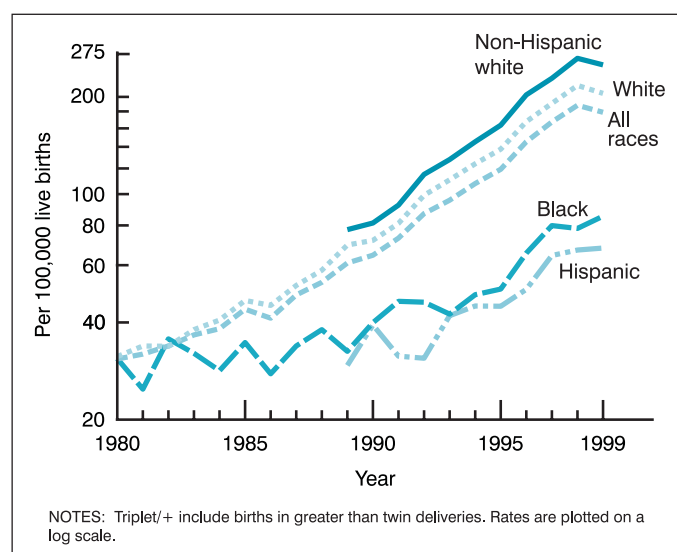
**Table J. Numbers of twin, triplet, quadruplet, and quintuplet and other higher order multiple births: United States, 1989–99**

| Year           | Twins   | Triplets | Quadruplets | Quintuplets and other higher order multiples <sup>1</sup> |
|----------------|---------|----------|-------------|---|
| 1999 . . . . . | 114,307 | 6,742    | 512         | 67  |
| 1998 . . . . . | 110,670 | 6,919    | 627         | 79  |
| 1997 . . . . . | 104,137 | 6,148    | 510         | 79  |
| 1996 . . . . . | 100,750 | 5,298    | 560         | 81  |
| 1995 . . . . . | 96,736  | 4,551    | 365         | 57  |
| 1994 . . . . . | 97,064  | 4,233    | 315         | 46  |
| 1993 . . . . . | 96,445  | 3,834    | 277         | 57  |
| 1992 . . . . . | 95,372  | 3,547    | 310         | 26  |
| 1991 . . . . . | 94,779  | 3,121    | 203         | 22  |
| 1990 . . . . . | 93,865  | 2,830    | 185         | 13  |
| 1989 . . . . . | 90,118  | 2,529    | 229         | 40  |

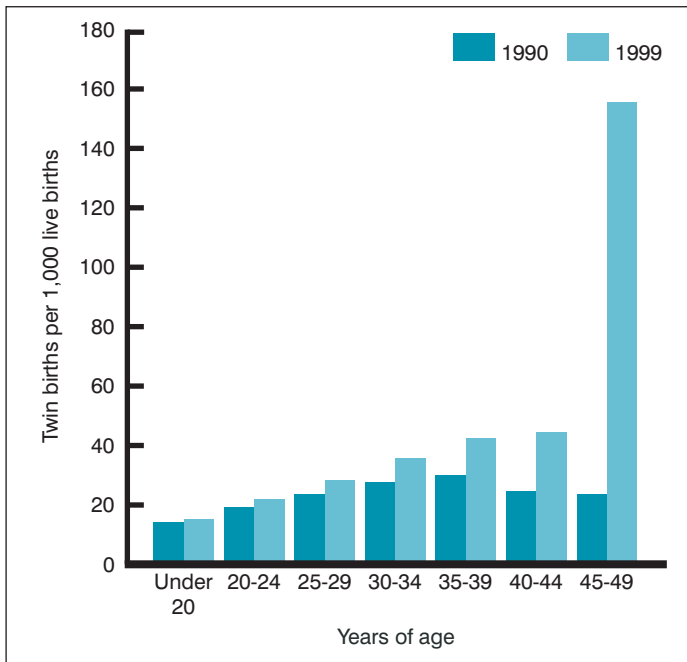
<sup>1</sup>Quintuplets, sextuplets, and higher order multiple births are not differentiated in the national data set.

Historically, twin birth rates have been highest for mothers 35–39 years of age. In 1999 however, twin birth rates rose steadily with maternal age and were highest for women aged 50–54 years (data not shown). Since 1990, the twin birth rate has risen 80 percent among women 40–44 years of age (from 24.7 to 44.5 per 1,000), and almost 600 percent among women aged 45–49 years (from 23.8 to 155.7), compared to only a 6 percent rise for women under age 20 years (14.3 to 15.2) (figure 10). Comparable trend data are not available for women aged 50–54 years, but in 1999 more than a third of births (34 percent) to women in the oldest age group were born in a twin delivery (data not shown).

Multiple births present substantial perinatal risk to both mother and infant, and risk increases with plurality. Mothers of multiples suffer more ante- and postpartum complications than singletons and their infants are born considerably smaller; on average, twins weigh about a third less, and triplets about half of singletons (91). Multiples are more likely to be admitted to neonatal intensive care and are less likely to survive the first year of life (66, 91).



**Figure 9. Triplet/+ birth rates by race and Hispanic origin of mother: United States, 1980–99**



**Figure 10. Twin birth rates by age of mother: United States, 1990 and 1999**

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## List of detailed tables

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# Guide to tables in Births: Final Data for 1999

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|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Geographic area:                                  |                |                |                |                |                |                |                |                |                |    |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| States <sup>1</sup> . . . . .                     |                |                |                |                |                |                |                |                |                | 10 | 11              | 12              |                 |                 |                 |                 |                 |                 | 19              |                 |                 |                 |                 |                 |                 |
| United States<br>or all reporting areas . . . . . | 1              | 2              | 3              | 4              | 5              | 6              | 7              | 8              | 9              | 10 | 11              | 12              | 13              | 14              | 15              | 16              | 17              | 18              | 19              | 20              | 21              | 22              | 23              | 24              | 25              |
| Years:  |                |                |                |                |                |                |                |                |                |    |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Current year only . . . . .                       |                | 2              | 3              |                |                |                | 7              | 8              |                | 10 | 11              | 12              | 13              | 14              | 15              | 16              | 17              |                 | 19              |                 | 21              | 22              | 23              | 24              | 25              |
| Trend . . . . .                                   | 1              |                |                | 4              | 5              | 6              |                |                | 9              |    |                 |                 |                 |                 |                 |                 |                 | 18              |                 | 20              |                 |                 |                 |                 |                 |
| Type of entry:                                    |                |                |                |                |                |                |                |                |                |    |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Number of births . . . . .                        | 1              | 2              |                |                |                | 6              | 7              |                |                | 10 | 11              | 12              | 13              | 14              | 15              | 16              | 17              |                 | 19              |                 | 21              | 22              |                 |                 |                 |
| Rates or other measures . . . . .                 | 1              |                | 3              | 4              | 5              | 6              |                | 8              | 9              | 10 |                 |                 | 13              | 14              | 15              | 16              | 17              | 18              | 19              | 20              | 21              | 22              | 23              | 24              | 25              |
| Characteristics:                                  |                |                |                |                |                |                |                |                |                |    |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Age of father . . . . .                           |                |                |                |                |                |                |                |                |                |    |                 |                 |                 |                 |                 |                 |                 |                 |                 | 20              |                 |                 |                 |                 |                 |
| Age of mother . . . . .                           |                | 2              | 3              | 4              |                |                | 7              |                | 9              |    |                 |                 |                 |                 |                 |                 |                 | 17              | 18              |                 | 21              |                 |                 |                 |                 |
| Alcohol use . . . . .                             |                |                |                |                |                |                |                |                |                |    |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | 24              | 25              |
| Apgar score . . . . .                             |                |                |                |                |                |                |                |                |                |    |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | 24              | 25              |
| Birthweight . . . . .                             |                |                |                |                |                |                |                |                |                |    |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | 23              | 24              | 25              |
| Day of week . . . . .                             |                |                |                |                |                |                |                |                |                |    |                 |                 |                 |                 |                 | 16              |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Education . . . . .                               |                |                |                |                |                |                |                |                |                |    |                 |                 | 13              | 14              |                 |                 |                 |                 |                 |                 | 21              |                 |                 |                 |                 |
| Gestational age . . . . .                         |                |                |                |                |                |                |                |                |                |    |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | 22              | 23              | 24              | 25              |
| Hispanic origin of mother . . . . .               |                |                |                |                |                | <sup>4</sup> 6 | <sup>4</sup> 7 | <sup>4</sup> 8 | <sup>4</sup> 9 |    |                 | <sup>4</sup> 12 |                 | <sup>4</sup> 14 |                 |                 | <sup>6</sup> 17 | <sup>6</sup> 18 | <sup>6</sup> 19 |                 | <sup>6</sup> 21 | <sup>6</sup> 22 | <sup>4</sup> 23 |                 | <sup>4</sup> 25 |
| Live-birth order . . . . .                        |                | 2              | 3              |                | 5              |                | 7              | 8              |                |    |                 |                 | 13              | 14              |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Method of delivery . . . . .                      |                |                |                |                |                |                |                |                |                |    |                 |                 |                 |                 |                 | 16              |                 |                 |                 |                 |                 |                 |                 | 24              | 25              |
| Month of birth . . . . .                          |                |                |                |                |                |                |                |                |                |    |                 |                 |                 |                 | 15              |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Nativity of mother . . . . .                      |                |                |                |                |                |                |                |                |                |    |                 |                 | 13              | 14              |                 |                 |                 |                 |                 |                 |                 |                 |                 | 24              | 25              |
| Prenatal care . . . . .                           |                |                |                |                |                |                |                |                |                |    |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | 24              | 25              |
| Race of father . . . . .                          |                |                |                |                |                |                |                |                |                |    |                 |                 |                 |                 |                 |                 |                 |                 |                 | <sup>3</sup> 20 |                 |                 |                 |                 |                 |
| Race of mother . . . . .                          | <sup>2</sup> 1 | <sup>2</sup> 2 | <sup>2</sup> 3 | <sup>2</sup> 4 | <sup>3</sup> 5 | <sup>4</sup> 6 | <sup>4</sup> 7 | <sup>4</sup> 8 | <sup>4</sup> 9 |    | <sup>2</sup> 11 | <sup>4</sup> 12 | <sup>5</sup> 13 | <sup>4</sup> 14 | <sup>3</sup> 15 | <sup>3</sup> 16 | <sup>6</sup> 17 | <sup>6</sup> 18 | <sup>6</sup> 19 |                 | <sup>3</sup> 21 | <sup>6</sup> 22 | <sup>4</sup> 23 | <sup>5</sup> 24 | <sup>4</sup> 25 |
| Sex of child . . . . .                            |                |                |                |                |                |                |                |                |                |    |                 |                 | 13              | 14              |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Teenage mothers . . . . .                         |                |                |                |                |                |                |                |                |                | 10 |                 |                 | 13              | 14              |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
| Tobacco use . . . . .                             |                |                |                |                |                |                |                |                |                |    |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | 24              | 25              |
| Unmarried mothers . . . . .                       |                |                |                |                |                |                |                |                |                |    |                 |                 | 13              | 14              |                 |                 |                 | 17              | 18              | 19              |                 |                 |                 |                 |                 |
| Weight gain during pregnancy . . . . .            |                |                |                |                |                |                |                |                |                |    |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | 22              | 23              | 24              | 25              |

| TABLE:   | 26              | 27              | 28              | 29              | 30              | 31              | 32              | 33              | 34              | 35              | 36              | 37              | 38              | 39              | 40              | 41              | 42 | 43              | 44              | 45              | 46              | 47              | 48              | 49              | 50              |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Geographic area:<br>States <sup>1</sup> . . . . .            |                 |                 |                 |                 |                 |                 |                 |                 | 34              |                 |                 |                 |                 |                 |                 | 41              |    |                 |                 |                 | 46              | 47              |                 |                 |                 |
| United States<br>or all reporting areas . . . . .            | 26              | 27              | 28              | 29              | 30              | 31              | 32              | 33              | 34              | 35              | 36              | 37              | 38              | 39              | 40              | 41              | 42 | 43              | 44              | 45              | 46              | 47              | 48              | 49              | 50              |
| Years:<br>Current year only . . . . .                        | 26              | 27              | 28              | 29              | 30              | 31              | 32              | 33              | 34              | 35              | 36              | 37              | 38              |                 | 40              | 41              | 42 | 43              |                 | 45              | 46              | 47              | 48              | 49              | 50              |
| Trend . . . . .  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | 39              |                 |                 |    |                 | 44              |                 |                 |                 |                 |                 |                 |
| Type of entry:<br>Number of births . . . . .                 | 26              | 27              | 28              | 29              | 30              | 31              |                 | 33              |                 | 35              | 36              | 37              | 38              | 39              | 40              |                 | 42 | 43              |                 | 45              | 46              | 47              | 48              | 49              | 50              |
| Rates or other measures . . . . .                            | 26              | 27              | 28              | 29              | 30              | 31              | 32              | 33              | 34              | 35              | 36              | 37              |                 | 39              | 40              | 41              | 42 | 43              | 44              | 45              | 46              | 47              | 48              | 49              | 50              |
| Characteristics:<br>Abnormal conditions of newborn . . . . . |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |    |                 |                 |                 |                 |                 | 48              |                 |                 |
| Age of mother . . . . .                                      | 26              |                 |                 | 29              | 30              |                 | 32              | 33              |                 |                 | 36              | 37              |                 |                 | 40              |                 |    |                 |                 | 45              |                 |                 | 48              | 49              | 50              |
| Attendant at birth . . . . .                                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | 38              |                 |                 |                 |    |                 |                 |                 |                 |                 |                 |                 |                 |
| Birthweight . . . . .  |                 |                 |                 |                 |                 |                 | 32              |                 |                 |                 |                 |                 |                 |                 |                 |                 |    | 43              | 44              | 45              | 46              | 47              |                 |                 |                 |
| Complications of labor . . . . .                             |                 | 27              | 28              |                 |                 |                 |                 |                 |                 |                 |                 | 37              |                 |                 |                 |                 | 42 |                 |                 |                 |                 |                 |                 |                 |                 |
| Congenital anomalies . . . . .                               |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |    |                 |                 |                 |                 |                 |                 | 49              |                 |
| Education . . . . .  |                 |                 |                 |                 |                 | 31              |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |    |                 |                 |                 |                 |                 |                 |                 |                 |
| Gestational age . . . . .                                    |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |    | 43              | 44              |                 |                 |                 |                 |                 |                 |
| Hispanic origin of mother . . . . .                          |                 |                 | <sup>4</sup> 28 |                 | <sup>4</sup> 30 | <sup>6</sup> 31 | <sup>6</sup> 32 | <sup>6</sup> 33 | <sup>6</sup> 34 | <sup>6</sup> 35 |                 |                 | <sup>6</sup> 38 | <sup>6</sup> 39 | <sup>6</sup> 40 | <sup>6</sup> 41 |    | <sup>6</sup> 43 | <sup>6</sup> 44 | <sup>6</sup> 45 | <sup>6</sup> 46 | <sup>6</sup> 47 |                 | <sup>6</sup> 50 |                 |
| Medical risk factors . . . . .                               | 26              | 27              | 28              |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | 42 |                 |                 |                 |                 |                 |                 |                 |                 |
| Method of delivery . . . . .                                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | 39              | 40              | 41              | 42 |                 |                 |                 |                 |                 |                 |                 |                 |
| Obstetric procedures . . . . .                               |                 | 27              | 28              |                 |                 |                 |                 |                 |                 |                 | 36              |                 |                 |                 |                 |                 |    |                 |                 |                 |                 |                 |                 |                 |                 |
| Place of delivery . . . . .                                  |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 | 38              |                 |                 |                 |    |                 |                 |                 |                 |                 |                 |                 |                 |
| Multiple births . . . . .                                    |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |    |                 |                 |                 |                 |                 |                 |                 | 50              |
| Prenatal care . . . . .                                      |                 |                 |                 |                 |                 |                 |                 | 33              | 34              | 35              |                 |                 |                 |                 |                 |                 |    |                 |                 |                 |                 |                 |                 |                 |                 |
| Race of mother . . . . .                                     | <sup>3</sup> 26 | <sup>5</sup> 27 | <sup>4</sup> 28 | <sup>3</sup> 29 | <sup>4</sup> 30 | <sup>3</sup> 31 | <sup>6</sup> 32 | <sup>6</sup> 33 | <sup>6</sup> 34 | <sup>6</sup> 35 | <sup>3</sup> 36 | <sup>3</sup> 37 | <sup>6</sup> 38 | <sup>6</sup> 39 | <sup>6</sup> 40 | <sup>6</sup> 41 |    | <sup>6</sup> 43 | <sup>3</sup> 44 | <sup>6</sup> 45 | <sup>6</sup> 46 | <sup>6</sup> 47 | <sup>3</sup> 48 | <sup>3</sup> 49 | <sup>6</sup> 50 |
| Tobacco use . . . . .  |                 |                 |                 | 29              | 30              | 31              | 32              |                 |                 |                 |                 |                 |                 |                 |                 |                 |    |                 |                 |                 |                 |                 |                 |                 |                 |

<sup>1</sup>Includes data for Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas; data for American Samoa not available for tables 34 and 41.  
<sup>2</sup>Includes white, black, American Indian, Asian or Pacific Islander.  
<sup>3</sup>Includes white and black.  
<sup>4</sup>Includes Mexican, Puerto Rican, Cuban, Central and South American, other and unknown Hispanic, non-Hispanic white, and non-Hispanic black.  
<sup>5</sup>Includes white, black, American Indian, Chinese, Japanese, Hawaiian, Filipino, and other Asian and Pacific Islanders.  
<sup>6</sup>Includes Hispanic, non-Hispanic white, and non-Hispanic black.



**Table 1. Live births, birth rates, and fertility rates, by race: United States, specified years 1940-55 and each year, 1960-99**

[Birth rates are live births per 1,000 population in specified group. Fertility rates are live births per 1,000 women aged 15-44 years in specified group. Population enumerated as of April 1 for census years and estimated as of July 1 for all other years. Beginning with 1970, excludes births to nonresidents of the United States]

| Year   | Number                 |           |         |                              |                           | Birth rate             |       |       |                              |                           | Fertility rate         |       |       |                              |                           |
|--|------------------------|-----------|---------|------------------------------|---------------------------|------------------------|-------|-------|------------------------------|---------------------------|------------------------|-------|-------|------------------------------|---------------------------|
|  | All races <sup>1</sup> | White     | Black   | American Indian <sup>2</sup> | Asian or Pacific Islander | All races <sup>1</sup> | White | Black | American Indian <sup>2</sup> | Asian or Pacific Islander | All races <sup>1</sup> | White | Black | American Indian <sup>2</sup> | Asian or Pacific Islander |
| <b>Registered births</b>                     |                        |           |         |                              |                           |                        |       |       |                              |                           |                        |       |       |                              |                           |
| <b>Race of mother:</b>                       |                        |           |         |                              |                           |                        |       |       |                              |                           |                        |       |       |                              |                           |
| 1999   | 3,959,417              | 3,132,501 | 605,970 | 40,170                       | 180,776                   | 14.5                   | 13.9  | 17.4  | 16.8                         | 16.7                      | 65.9                   | 65.1  | 70.1  | 69.7                         | 65.6                      |
| 1998   | 3,941,553              | 3,118,727 | 609,902 | 40,272                       | 172,652                   | 14.6                   | 14.0  | 17.7  | 17.1                         | 16.4                      | 65.6                   | 64.6  | 71.0  | 70.7                         | 64.0                      |
| 1997   | 3,880,894              | 3,072,640 | 599,913 | 38,572                       | 169,769                   | 14.5                   | 13.9  | 17.7  | 16.6                         | 16.9                      | 65.0                   | 63.9  | 70.7  | 69.1                         | 66.3                      |
| 1996   | 3,891,494              | 3,093,057 | 594,781 | 37,880                       | 165,776                   | 14.7                   | 14.1  | 17.8  | 16.6                         | 17.0                      | 65.3                   | 64.3  | 70.7  | 68.7                         | 65.9                      |
| 1995   | 3,899,589              | 3,098,885 | 603,139 | 37,278                       | 160,287                   | 14.8                   | 14.2  | 18.2  | 16.6                         | 17.3                      | 65.6                   | 64.4  | 72.3  | 69.1                         | 66.4                      |
| 1994   | 3,952,767              | 3,121,004 | 636,391 | 37,740                       | 157,632                   | 15.2                   | 14.4  | 19.5  | 17.1                         | 17.5                      | 66.7                   | 64.9  | 76.9  | 70.9                         | 66.8                      |
| 1993   | 4,000,240              | 3,149,833 | 658,875 | 38,732                       | 152,800                   | 15.5                   | 14.7  | 20.5  | 17.8                         | 17.7                      | 67.6                   | 65.4  | 80.5  | 73.4                         | 66.7                      |
| 1992   | 4,065,014              | 3,201,678 | 673,633 | 39,453                       | 150,250                   | 15.9                   | 15.0  | 21.3  | 18.4                         | 18.0                      | 68.9                   | 66.5  | 83.2  | 75.4                         | 67.2                      |
| 1991   | 4,110,907              | 3,241,273 | 682,602 | 38,841                       | 145,372                   | 16.3                   | 15.4  | 21.9  | 18.3                         | 18.2                      | 69.6                   | 67.0  | 85.2  | 75.1                         | 67.6                      |
| 1990   | 4,158,212              | 3,290,273 | 684,336 | 39,051                       | 141,635                   | 16.7                   | 15.8  | 22.4  | 18.9                         | 19.0                      | 70.9                   | 68.3  | 86.8  | 76.2                         | 69.6                      |
| 1989   | 4,040,958              | 3,192,355 | 673,124 | 39,478                       | 133,075                   | 16.4                   | 15.4  | 22.3  | 19.7                         | 18.7                      | 69.2                   | 66.4  | 86.2  | 79.0                         | 68.2                      |
| 1988   | 3,909,510              | 3,102,083 | 638,562 | 37,088                       | 129,035                   | 16.0                   | 15.0  | 21.5  | 19.3                         | 19.2                      | 67.3                   | 64.5  | 82.6  | 76.8                         | 70.2                      |
| 1987   | 3,809,394              | 3,043,828 | 611,173 | 35,322                       | 116,560                   | 15.7                   | 14.9  | 20.8  | 19.1                         | 18.4                      | 65.8                   | 63.3  | 80.1  | 75.6                         | 67.1                      |
| 1986   | 3,756,547              | 3,019,175 | 592,910 | 34,169                       | 107,797                   | 15.6                   | 14.8  | 20.5  | 19.2                         | 18.0                      | 65.4                   | 63.1  | 78.9  | 75.9                         | 66.0                      |
| 1985   | 3,760,561              | 3,037,913 | 581,824 | 34,037                       | 104,606                   | 15.8                   | 15.0  | 20.4  | 19.8                         | 18.7                      | 66.3                   | 64.1  | 78.8  | 78.6                         | 68.4                      |
| 1984 <sup>3</sup>                            | 3,669,141              | 2,967,100 | 568,138 | 33,256                       | 98,926                    | 15.6                   | 14.8  | 20.1  | 20.1                         | 18.8                      | 65.5                   | 63.2  | 78.2  | 79.8                         | 69.2                      |
| 1983 <sup>3</sup>                            | 3,638,933              | 2,946,468 | 562,624 | 32,881                       | 95,713                    | 15.6                   | 14.8  | 20.2  | 20.6                         | 19.5                      | 65.7                   | 63.4  | 78.7  | 81.8                         | 71.7                      |
| 1982 <sup>3</sup>                            | 3,680,537              | 2,984,817 | 568,506 | 32,436                       | 93,193                    | 15.9                   | 15.1  | 20.7  | 21.1                         | 20.3                      | 67.3                   | 64.8  | 80.9  | 83.6                         | 74.8                      |
| 1981 <sup>3</sup>                            | 3,629,238              | 2,947,679 | 564,955 | 29,688                       | 84,553                    | 15.8                   | 15.0  | 20.8  | 20.0                         | 20.1                      | 67.3                   | 64.8  | 82.0  | 79.6                         | 73.7                      |
| 1980 <sup>3</sup>                            | 3,612,258              | 2,936,351 | 568,080 | 29,389                       | 74,355                    | 15.9                   | 15.1  | 21.3  | 20.7                         | 19.9                      | 68.4                   | 65.6  | 84.7  | 82.7                         | 73.2                      |
| <b>Race of child:</b>                        |                        |           |         |                              |                           |                        |       |       |                              |                           |                        |       |       |                              |                           |
| 1980 <sup>3</sup>                            | 3,612,258              | 2,898,732 | 589,616 | 36,797                       | ---                       | 15.9                   | 14.9  | 22.1  | ---                          | ---                       | 68.4                   | 64.7  | 88.1  | ---                          | ---                       |
| 1979 <sup>3</sup>                            | 3,494,398              | 2,808,420 | 577,855 | 34,269                       | ---                       | 15.6                   | 14.5  | 22.0  | ---                          | ---                       | 67.2                   | 63.4  | 88.3  | ---                          | ---                       |
| 1978 <sup>3</sup>                            | 3,333,279              | 2,681,116 | 551,540 | 33,160                       | ---                       | 15.0                   | 14.0  | 21.3  | ---                          | ---                       | 65.5                   | 61.7  | 86.7  | ---                          | ---                       |
| 1977 <sup>3</sup>                            | 3,326,632              | 2,691,070 | 544,221 | 30,500                       | ---                       | 15.1                   | 14.1  | 21.4  | ---                          | ---                       | 66.8                   | 63.2  | 88.1  | ---                          | ---                       |
| 1976 <sup>3</sup>                            | 3,167,788              | 2,567,614 | 514,479 | 29,009                       | ---                       | 14.6                   | 13.6  | 20.5  | ---                          | ---                       | 65.0                   | 61.5  | 85.8  | ---                          | ---                       |
| 1975 <sup>3</sup>                            | 3,144,198              | 2,551,996 | 511,581 | 27,546                       | ---                       | 14.6                   | 13.6  | 20.7  | ---                          | ---                       | 66.0                   | 62.5  | 87.9  | ---                          | ---                       |
| 1974 <sup>3</sup>                            | 3,159,958              | 2,575,792 | 507,162 | 26,631                       | ---                       | 14.8                   | 13.9  | 20.8  | ---                          | ---                       | 67.8                   | 64.2  | 89.7  | ---                          | ---                       |
| 1973 <sup>3</sup>                            | 3,136,965              | 2,551,030 | 512,597 | 26,464                       | ---                       | 14.8                   | 13.8  | 21.4  | ---                          | ---                       | 68.8                   | 64.9  | 93.6  | ---                          | ---                       |
| 1972 <sup>3</sup>                            | 3,258,411              | 2,655,558 | 531,329 | 27,368                       | ---                       | 15.6                   | 14.5  | 22.5  | ---                          | ---                       | 73.1                   | 68.9  | 99.9  | ---                          | ---                       |
| 1971 <sup>4</sup>                            | 3,555,970              | 2,919,746 | 564,960 | 27,148                       | ---                       | 17.2                   | 16.1  | 24.4  | ---                          | ---                       | 81.6                   | 77.3  | 109.7 | ---                          | ---                       |
| 1970 <sup>4</sup>                            | 3,731,386              | 3,091,264 | 572,362 | 25,864                       | ---                       | 18.4                   | 17.4  | 25.3  | ---                          | ---                       | 87.9                   | 84.1  | 115.4 | ---                          | ---                       |
| 1969 <sup>4</sup>                            | 3,600,206              | 2,993,614 | 543,132 | 24,008                       | ---                       | 17.9                   | 16.9  | 24.4  | ---                          | ---                       | 86.1                   | 82.2  | 112.1 | ---                          | ---                       |
| 1968 <sup>4</sup>                            | 3,501,564              | 2,912,224 | 531,152 | 24,156                       | ---                       | 17.6                   | 16.6  | 24.2  | ---                          | ---                       | 85.2                   | 81.3  | 112.7 | ---                          | ---                       |
| 1967 <sup>5</sup>                            | 3,520,959              | 2,922,502 | 543,976 | 22,665                       | ---                       | 17.8                   | 16.8  | 25.1  | ---                          | ---                       | 87.2                   | 82.8  | 118.5 | ---                          | ---                       |
| 1966 <sup>4</sup>                            | 3,606,274              | 2,993,230 | 558,244 | 23,014                       | ---                       | 18.4                   | 17.4  | 26.2  | ---                          | ---                       | 90.8                   | 86.2  | 124.7 | ---                          | ---                       |
| 1965 <sup>4</sup>                            | 3,760,358              | 3,123,860 | 581,126 | 24,066                       | ---                       | 19.4                   | 18.3  | 27.7  | ---                          | ---                       | 96.3                   | 91.3  | 133.2 | ---                          | ---                       |
| 1964 <sup>4</sup>                            | 4,027,490              | 3,369,160 | 607,556 | 24,382                       | ---                       | 21.1                   | 20.0  | 29.5  | ---                          | ---                       | 104.7                  | 99.8  | 142.6 | ---                          | ---                       |
| 1963 <sup>4,6</sup>                          | 4,098,020              | 3,326,344 | 580,658 | 22,358                       | ---                       | 21.7                   | 20.7  | ---   | ---                          | ---                       | 108.3                  | 103.6 | ---   | ---                          | ---                       |
| 1962 <sup>4,6</sup>                          | 4,167,362              | 3,394,068 | 584,610 | 21,968                       | ---                       | 22.4                   | 21.4  | ---   | ---                          | ---                       | 112.0                  | 107.5 | ---   | ---                          | ---                       |
| 1961 <sup>4</sup>                            | 4,268,326              | 3,600,864 | 611,072 | 21,464                       | ---                       | 23.3                   | 22.2  | ---   | ---                          | ---                       | 117.1                  | 112.3 | ---   | ---                          | ---                       |
| 1960 <sup>4</sup>                            | 4,257,850              | 3,600,744 | 602,264 | 21,114                       | ---                       | 23.7                   | 22.7  | 31.9  | ---                          | ---                       | 118.0                  | 113.2 | 153.5 | ---                          | ---                       |
| <b>Births adjusted for underregistration</b> |                        |           |         |                              |                           |                        |       |       |                              |                           |                        |       |       |                              |                           |
| <b>Race of child:</b>                        |                        |           |         |                              |                           |                        |       |       |                              |                           |                        |       |       |                              |                           |
| 1955   | 4,097,000              | 3,485,000 | ---     | ---                          | ---                       | 25.0                   | 23.8  | ---   | ---                          | ---                       | 118.3                  | 113.7 | ---   | ---                          | ---                       |
| 1950   | 3,632,000              | 3,108,000 | ---     | ---                          | ---                       | 24.1                   | 23.0  | ---   | ---                          | ---                       | 106.2                  | 102.3 | ---   | ---                          | ---                       |
| 1945   | 2,858,000              | 2,471,000 | ---     | ---                          | ---                       | 20.4                   | 19.7  | ---   | ---                          | ---                       | 85.9                   | 83.4  | ---   | ---                          | ---                       |
| 1940   | 2,559,000              | 2,199,000 | ---     | ---                          | ---                       | 19.4                   | 18.6  | ---   | ---                          | ---                       | 79.9                   | 77.1  | ---   | ---                          | ---                       |

--- Data not available.

<sup>1</sup> For 1960-91 includes births to races not shown separately.

<sup>2</sup> Includes births to Aleuts and Eskimos.

<sup>3</sup> Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.

<sup>4</sup> Based on a 50-percent sample of births.

<sup>5</sup> Based on a 20- to 50-percent sample of births.

<sup>6</sup> Figures by race exclude New Jersey.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

**Table 2. Live births by age of mother, live-birth order, and race of mother: United States, 1999**

[Live-birth order refers to number of children born alive to mother]

| Live-birth order and race of mother | All ages  | Age of mother  |             |          |          |          |          |          |             |             |             |             |             |             |             |
|-------------------------------------|-----------|----------------|-------------|----------|----------|----------|----------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                     |           | Under 15 years | 15-19 years |          |          |          |          |          | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-49 years | 50-54 years |
|                                     |           |                | Total       | 15 years | 16 years | 17 years | 18 years | 19 years |             |             |             |             |             |             |             |
| All races .....                     | 3,959,417 | 9,054          | 476,050     | 22,896   | 51,516   | 89,176   | 133,988  | 178,474  | 981,929     | 1,078,252   | 892,400     | 434,294     | 83,090      | 4,174       | 174         |
| 1st child .....                     | 1,588,639 | 8,821          | 371,024     | 21,811   | 47,039   | 75,906   | 103,752  | 122,516  | 448,406     | 392,579     | 253,400     | 95,757      | 17,606      | 992         | 54          |
| 2d child .....                      | 1,285,592 | 162            | 85,488      | 910      | 3,911    | 11,489   | 25,110   | 44,068   | 338,946     | 373,657     | 321,925     | 141,249     | 23,168      | 958         | 39          |
| 3d child .....                      | 653,070   | 7              | 14,676      | 33       | 246      | 1,154    | 3,851    | 9,392    | 137,418     | 195,062     | 186,450     | 101,454     | 17,241      | 729         | 33          |
| 4th child .....                     | 250,404   | 1              | 1,872       | 4        | 15       | 89       | 426      | 1,338    | 39,701      | 73,300      | 75,501      | 49,454      | 10,096      | 458         | 21          |
| 5th child .....                     | 91,287    | -              | 238         | -        | 1        | 6        | 51       | 180      | 10,019      | 25,193      | 28,360      | 21,501      | 5,688       | 284         | 4           |
| 6th child .....                     | 37,458    | -              | 29          | 2        | 2        | 3        | 5        | 17       | 2,381       | 8,956       | 12,354      | 10,332      | 3,200       | 202         | 4           |
| 7th child .....                     | 16,919    | -              | 6           | -        | -        | -        | 2        | 4        | 545         | 3,181       | 5,643       | 5,402       | 2,006       | 127         | 9           |
| 8th child and over .....            | 17,898    | -              | 3           | -        | -        | -        | 1        | 2        | 191         | 1,869       | 4,861       | 6,959       | 3,614       | 395         | 6           |
| Not stated .....                    | 18,150    | 63             | 2,714       | 136      | 302      | 529      | 790      | 957      | 4,322       | 4,455       | 3,906       | 2,186       | 471         | 29          | 4           |
| White .....                         | 3,132,501 | 4,739          | 337,888     | 14,193   | 34,649   | 62,782   | 96,254   | 130,010  | 748,371     | 873,654     | 739,948     | 356,959     | 67,419      | 3,385       | 138         |
| 1st child .....                     | 1,262,603 | 4,618          | 269,011     | 13,586   | 32,055   | 54,498   | 76,643   | 92,229   | 356,004     | 326,468     | 211,364     | 79,619      | 14,619      | 858         | 42          |
| 2d child .....                      | 1,034,524 | 75             | 57,177      | 473      | 2,207    | 7,209    | 16,620   | 30,668   | 261,340     | 309,269     | 270,644     | 116,214     | 18,986      | 784         | 35          |
| 3d child .....                      | 517,012   | 2              | 8,498       | 21       | 130      | 618      | 2,128    | 5,601    | 96,969      | 155,912     | 156,546     | 84,605      | 13,863      | 587         | 30          |
| 4th child .....                     | 190,472   | -              | 903         | 3        | 5        | 44       | 197      | 654      | 24,322      | 54,400      | 61,398      | 40,837      | 8,226       | 369         | 17          |
| 5th child .....                     | 65,205    | -              | 120         | -        | 1        | 3        | 24       | 92       | 5,057       | 16,577      | 21,610      | 17,132      | 4,490       | 215         | 4           |
| 6th child .....                     | 25,466    | -              | 11          | 2        | 1        | 1        | 1        | 6        | 984         | 5,121       | 8,725       | 7,942       | 2,523       | 157         | 3           |
| 7th child .....                     | 11,085    | -              | 3           | -        | -        | -        | 1        | 2        | 208         | 1,590       | 3,699       | 3,961       | 1,526       | 94          | 4           |
| 8th child and over .....            | 11,573    | -              | 1           | -        | -        | -        | -        | 1        | 92          | 774         | 2,724       | 4,873       | 2,807       | 301         | 1           |
| Not stated .....                    | 14,561    | 44             | 2,164       | 108      | 250      | 409      | 640      | 757      | 3,395       | 3,543       | 3,238       | 1,776       | 379         | 20          | 2           |
| Black .....                         | 605,970   | 3,977          | 121,166     | 7,865    | 14,942   | 23,112   | 32,948   | 42,299   | 193,211     | 138,868     | 91,486      | 47,277      | 9,564       | 409         | 12          |
| 1st child .....                     | 228,027   | 3,866          | 88,631      | 7,438    | 13,221   | 18,631   | 23,408   | 25,933   | 71,330      | 34,529      | 19,696      | 8,354       | 1,555       | 60          | 6           |
| 2d child .....                      | 179,502   | 87             | 25,375      | 392      | 1,562    | 3,852    | 7,606    | 11,963   | 65,484      | 44,233      | 28,479      | 13,500      | 2,255       | 87          | 2           |
| 3d child .....                      | 106,259   | 4              | 5,661       | 9        | 105      | 483      | 1,572    | 3,492    | 35,748      | 31,050      | 20,736      | 10,902      | 2,082       | 75          | 1           |
| 4th child .....                     | 48,822    | 1              | 890         | 1        | 10       | 37       | 202      | 640      | 13,805      | 15,640      | 10,778      | 6,348       | 1,308       | 52          | -           |
| 5th child .....                     | 21,487    | -              | 110         | -        | -        | 2        | 25       | 83       | 4,481       | 7,264       | 5,274       | 3,437       | 872         | 49          | -           |
| 6th child .....                     | 9,817     | -              | 17          | -        | 1        | 2        | 4        | 10       | 1,250       | 3,282       | 2,919       | 1,822       | 502         | 25          | -           |
| 7th child .....                     | 4,695     | -              | 3           | -        | -        | -        | 1        | 2        | 302         | 1,350       | 1,544       | 1,112       | 365         | 18          | 1           |
| 8th child and over .....            | 4,799     | -              | 2           | -        | -        | -        | 1        | 1        | 85          | 912         | 1,635       | 1,561       | 564         | 40          | -           |
| Not stated .....                    | 2,562     | 19             | 477         | 25       | 43       | 105      | 129      | 175      | 726         | 608         | 425         | 241         | 61          | 3           | 2           |
| American Indian <sup>1</sup> .....  | 40,170    | 198            | 7,915       | 440      | 979      | 1,565    | 2,200    | 2,731    | 13,225      | 9,641       | 5,701       | 2,844       | 621         | 25          | -           |
| 1st child .....                     | 14,369    | 198            | 6,047       | 419      | 907      | 1,302    | 1,650    | 1,769    | 4,874       | 1,959       | 876         | 348         | 63          | 4           | -           |
| 2d child .....                      | 10,931    | -              | 1,540       | 20       | 58       | 225      | 472      | 765      | 4,697       | 2,743       | 1,310       | 537         | 96          | 8           | -           |
| 3d child .....                      | 7,063     | -              | 258         | -        | 7        | 28       | 61       | 162      | 2,435       | 2,421       | 1,263       | 571         | 113         | 2           | -           |
| 4th child .....                     | 3,778     | -              | 26          | -        | -        | 1        | 7        | 18       | 860         | 1,372       | 937         | 491         | 89          | 3           | -           |
| 5th child .....                     | 1,895     | -              | 2           | -        | -        | 1        | -        | 1        | 238         | 652         | 597         | 319         | 85          | 2           | -           |
| 6th child .....                     | 933       | -              | -           | -        | -        | -        | -        | -        | 49          | 260         | 337         | 227         | 58          | 2           | -           |
| 7th child .....                     | 511       | -              | -           | -        | -        | -        | -        | -        | 9           | 119         | 192         | 145         | 44          | 2           | -           |
| 8th child and over .....            | 502       | -              | -           | -        | -        | -        | -        | -        | 4           | 74          | 167         | 185         | 70          | 2           | -           |
| Not stated .....                    | 188       | -              | 42          | 1        | 7        | 8        | 10       | 16       | 59          | 41          | 22          | 21          | 3           | -           | -           |
| Asian or Pacific Islander .....     | 180,776   | 140            | 9,081       | 398      | 946      | 1,717    | 2,586    | 3,434    | 27,122      | 56,089      | 55,265      | 27,214      | 5,486       | 355         | 24          |
| 1st child .....                     | 83,640    | 139            | 7,335       | 368      | 856      | 1,475    | 2,051    | 2,585    | 16,198      | 29,623      | 21,464      | 7,436       | 1,369       | 70          | 6           |
| 2d child .....                      | 60,635    | -              | 1,396       | 25       | 84       | 203      | 412      | 672      | 7,425       | 17,412      | 21,492      | 10,998      | 1,831       | 79          | 2           |
| 3d child .....                      | 22,736    | 1              | 259         | 3        | 4        | 25       | 90       | 137      | 2,266       | 5,679       | 7,905       | 5,376       | 1,183       | 65          | 2           |
| 4th child .....                     | 7,332     | -              | 53          | -        | -        | 7        | 20       | 26       | 714         | 1,888       | 2,388       | 1,778       | 473         | 34          | 4           |
| 5th child .....                     | 2,700     | -              | 6           | -        | -        | -        | 2        | 4        | 243         | 700         | 879         | 613         | 241         | 18          | -           |
| 6th child .....                     | 1,242     | -              | 1           | -        | -        | -        | -        | 1        | 98          | 293         | 373         | 341         | 117         | 18          | 1           |
| 7th child .....                     | 628       | -              | -           | -        | -        | -        | -        | -        | 26          | 122         | 208         | 184         | 71          | 13          | 4           |
| 8th child and over .....            | 1,024     | -              | -           | -        | -        | -        | -        | -        | 10          | 109         | 335         | 340         | 173         | 52          | 5           |
| Not stated .....                    | 839       | -              | 31          | 2        | 2        | 7        | 11       | 9        | 142         | 263         | 221         | 148         | 28          | 6           | -           |

- Quantity zero.

<sup>1</sup> Includes births to Aleuts and Eskimos.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

**Table 3. Fertility rates and birth rates by age of mother, live-birth order, and race of mother: United States, 1999**

[Rates are live births per 1,000 women in specified age and racial group. Live-birth order refers to number of children born alive to mother. Figures for live-birth order not stated are distributed]

| Live-birth order and race of mother | 15-44 years <sup>1</sup> | Age of mother |             |             |             |             |             |             |             |             |                          |
|-------------------------------------|--------------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------|
|                                     |                          | 10-14 years   | 15-19 years |             |             | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-49 years <sup>2</sup> |
|                                     |                          |               | Total       | 15-17 years | 18-19 years |             |             |             |             |             |                          |
| All races .....                     | 65.9                     | 0.9           | 49.6        | 28.7        | 80.3        | 111.0       | 117.8       | 89.6        | 38.3        | 7.4         | 0.4                      |
| 1st child .....                     | 26.6                     | 0.9           | 38.9        | 25.5        | 58.4        | 50.9        | 43.1        | 25.6        | 8.5         | 1.6         | 0.1                      |
| 2d child .....                      | 21.5                     | 0.0           | 9.0         | 2.9         | 17.9        | 38.5        | 41.0        | 32.5        | 12.5        | 2.1         | 0.1                      |
| 3d child .....                      | 10.9                     | *             | 1.5         | 0.3         | 3.4         | 15.6        | 21.4        | 18.8        | 9.0         | 1.5         | 0.1                      |
| 4th child .....                     | 4.2                      | *             | 0.2         | 0.0         | 0.5         | 4.5         | 8.0         | 7.6         | 4.4         | 0.9         | 0.0                      |
| 5th child .....                     | 1.5                      | *             | 0.0         | *           | 0.1         | 1.1         | 2.8         | 2.9         | 1.9         | 0.5         | 0.0                      |
| 6th and 7th child .....             | 0.9                      | *             | 0.0         | *           | 0.0         | 0.3         | 1.3         | 1.8         | 1.4         | 0.5         | 0.0                      |
| 8th child and over .....            | 0.3                      | *             | *           | *           | *           | 0.0         | 0.2         | 0.5         | 0.6         | 0.3         | 0.0                      |
| White .....                         | 65.1                     | 0.6           | 44.6        | 24.8        | 73.5        | 107.0       | 121.1       | 93.2        | 38.8        | 7.3         | 0.4                      |
| 1st child .....                     | 26.4                     | 0.6           | 35.7        | 22.4        | 55.2        | 51.1        | 45.4        | 26.7        | 8.7         | 1.6         | 0.1                      |
| 2d child .....                      | 21.6                     | 0.0           | 7.6         | 2.2         | 15.5        | 37.5        | 43.0        | 34.2        | 12.7        | 2.1         | 0.1                      |
| 3d child .....                      | 10.8                     | *             | 1.1         | 0.2         | 2.5         | 13.9        | 21.7        | 19.8        | 9.2         | 1.5         | 0.1                      |
| 4th child .....                     | 4.0                      | *             | 0.1         | 0.0         | 0.3         | 3.5         | 7.6         | 7.8         | 4.5         | 0.9         | 0.0                      |
| 5th child .....                     | 1.4                      | *             | 0.0         | *           | 0.0         | 0.7         | 2.3         | 2.7         | 1.9         | 0.5         | 0.0                      |
| 6th and 7th child .....             | 0.8                      | *             | *           | *           | *           | 0.2         | 0.9         | 1.6         | 1.3         | 0.4         | 0.0                      |
| 8th child and over .....            | 0.2                      | *             | *           | *           | *           | 0.0         | 0.1         | 0.3         | 0.5         | 0.3         | 0.0                      |
| Black .....                         | 70.1                     | 2.6           | 81.0        | 52.0        | 122.8       | 141.7       | 101.9       | 64.5        | 30.8        | 6.5         | 0.3                      |
| 1st child .....                     | 26.5                     | 2.6           | 59.5        | 44.7        | 80.8        | 52.5        | 25.5        | 13.9        | 5.5         | 1.1         | 0.1                      |
| 2d child .....                      | 20.9                     | 0.1           | 17.0        | 6.6         | 32.1        | 48.2        | 32.6        | 20.2        | 8.8         | 1.6         | 0.1                      |
| 3d child .....                      | 12.4                     | *             | 3.8         | 0.7         | 8.3         | 26.3        | 22.9        | 14.7        | 7.1         | 1.4         | 0.1                      |
| 4th child .....                     | 5.7                      | *             | 0.6         | 0.1         | 1.4         | 10.2        | 11.5        | 7.6         | 4.2         | 0.9         | 0.0                      |
| 5th child .....                     | 2.5                      | *             | 0.1         | *           | 0.2         | 3.3         | 5.4         | 3.7         | 2.2         | 0.6         | 0.0                      |
| 6th and 7th child .....             | 1.7                      | *             | 0.0         | *           | *           | 1.1         | 3.4         | 3.2         | 1.9         | 0.6         | 0.0                      |
| 8th child and over .....            | 0.6                      | *             | *           | *           | *           | 0.1         | 0.7         | 1.2         | 1.0         | 0.4         | 0.0                      |
| American Indian <sup>3</sup> .....  | 69.7                     | 1.6           | 67.8        | 41.4        | 110.6       | 137.1       | 102.4       | 64.3        | 30.7        | 7.1         | 0.3                      |
| 1st child .....                     | 25.0                     | 1.6           | 52.1        | 36.6        | 77.1        | 50.8        | 20.9        | 9.9         | 3.8         | 0.7         | *                        |
| 2d child .....                      | 19.0                     | *             | 13.3        | 4.2         | 27.9        | 48.9        | 29.3        | 14.8        | 5.8         | 1.1         | *                        |
| 3d child .....                      | 12.3                     | *             | 2.2         | 0.5         | 5.0         | 25.4        | 25.8        | 14.3        | 6.2         | 1.3         | *                        |
| 4th child .....                     | 6.6                      | *             | 0.2         | *           | 0.6         | 9.0         | 14.6        | 10.6        | 5.3         | 1.0         | *                        |
| 5th child .....                     | 3.3                      | *             | *           | *           | *           | 2.5         | 7.0         | 6.8         | 3.5         | 1.0         | *                        |
| 6th and 7th child .....             | 2.5                      | *             | *           | *           | *           | 0.6         | 4.0         | 6.0         | 4.1         | 1.2         | *                        |
| 8th child and over .....            | 0.9                      | *             | *           | *           | *           | *           | 0.8         | 1.9         | 2.0         | 0.8         | *                        |
| Asian or Pacific Islander .....     | 65.6                     | 0.3           | 22.3        | 12.3        | 38.0        | 70.0        | 116.4       | 109.3       | 54.6        | 11.6        | 0.9                      |
| 1st child .....                     | 30.5                     | 0.3           | 18.1        | 10.9        | 29.4        | 42.0        | 61.8        | 42.6        | 15.0        | 2.9         | 0.2                      |
| 2d child .....                      | 22.1                     | *             | 3.4         | 1.3         | 6.9         | 19.3        | 36.3        | 42.7        | 22.2        | 3.9         | 0.2                      |
| 3d child .....                      | 8.3                      | *             | 0.6         | 0.1         | 1.4         | 5.9         | 11.8        | 15.7        | 10.9        | 2.5         | 0.2                      |
| 4th child .....                     | 2.7                      | *             | 0.1         | *           | 0.3         | 1.9         | 3.9         | 4.7         | 3.6         | 1.0         | 0.1                      |
| 5th child .....                     | 1.0                      | *             | *           | *           | *           | 0.6         | 1.5         | 1.7         | 1.2         | 0.5         | *                        |
| 6th and 7th child .....             | 0.7                      | *             | *           | *           | *           | 0.3         | 0.9         | 1.2         | 1.1         | 0.4         | 0.1                      |
| 8th child and over .....            | 0.4                      | *             | *           | *           | *           | *           | 0.2         | 0.7         | 0.7         | 0.4         | 0.1                      |

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in numerator.

0.0 Quantity more than zero but less than 0.05.

<sup>1</sup> Fertility rates computed by relating total births, regardless of age of mother, to women aged 15-44 years.

<sup>2</sup> Birth rates computed by relating births to women aged 45-54 years to women aged 45-49 years.

<sup>3</sup> Includes births to Aleuts and Eskimos.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

**Table 4. Total fertility rates and birth rates by age of mother: United States, 1970-99, and by age and race of mother: United States, 1980-99**

[Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5. Birth rates are live births per 1,000 women in specified group. Population enumerated as of April 1 for 1970, 1980, and 1990, and estimated as of July 1 for all other years]

| Year and race                | Total fertility rate | Age of mother |             |             |             |             |             |             |             |             |                          |
|------------------------------|----------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------|
|                              |                      | 10-14 years   | 15-19 years |             |             | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-49 years <sup>1</sup> |
|                              |                      |               | Total       | 15-17 years | 18-19 years |             |             |             |             |             |                          |
| <b>All races<sup>2</sup></b> |                      |               |             |             |             |             |             |             |             |             |                          |
| 1999                         | 2,075.0              | 0.9           | 49.6        | 28.7        | 80.3        | 111.0       | 117.8       | 89.6        | 38.3        | 7.4         | 0.4                      |
| 1998                         | 2,058.5              | 1.0           | 51.1        | 30.4        | 82.0        | 111.2       | 115.9       | 87.4        | 37.4        | 7.3         | 0.4                      |
| 1997                         | 2,032.5              | 1.1           | 52.3        | 32.1        | 83.6        | 110.4       | 113.8       | 85.3        | 36.1        | 7.1         | 0.4                      |
| 1996                         | 2,027.0              | 1.2           | 54.4        | 33.8        | 86.0        | 110.4       | 113.1       | 83.9        | 35.3        | 6.8         | 0.3                      |
| 1995                         | 2,019.0              | 1.3           | 56.8        | 36.0        | 89.1        | 109.8       | 112.2       | 82.5        | 34.3        | 6.6         | 0.3                      |
| 1994                         | 2,036.0              | 1.4           | 58.9        | 37.6        | 91.5        | 111.1       | 113.9       | 81.5        | 33.7        | 6.4         | 0.3                      |
| 1993                         | 2,046.0              | 1.4           | 59.6        | 37.8        | 92.1        | 112.6       | 115.5       | 80.8        | 32.9        | 6.1         | 0.3                      |
| 1992                         | 2,065.0              | 1.4           | 60.7        | 37.8        | 94.5        | 114.6       | 117.4       | 80.2        | 32.5        | 5.9         | 0.3                      |
| 1991                         | 2,073.0              | 1.4           | 62.1        | 38.7        | 94.4        | 115.7       | 118.2       | 79.5        | 32.0        | 5.5         | 0.2                      |
| 1990                         | 2,081.0              | 1.4           | 59.9        | 37.5        | 88.6        | 116.5       | 120.2       | 80.8        | 31.7        | 5.5         | 0.2                      |
| 1989                         | 2,014.0              | 1.4           | 57.3        | 36.4        | 84.2        | 113.8       | 117.6       | 77.4        | 29.9        | 5.2         | 0.2                      |
| 1988                         | 1,934.0              | 1.3           | 53.0        | 33.6        | 79.9        | 110.2       | 114.4       | 74.8        | 28.1        | 4.8         | 0.2                      |
| 1987                         | 1,872.0              | 1.3           | 50.6        | 31.7        | 78.5        | 107.9       | 111.6       | 72.1        | 26.3        | 4.4         | 0.2                      |
| 1986                         | 1,837.5              | 1.3           | 50.2        | 30.5        | 79.6        | 107.4       | 109.8       | 70.1        | 24.4        | 4.1         | 0.2                      |
| 1985                         | 1,844.0              | 1.2           | 51.0        | 31.0        | 79.6        | 108.3       | 111.0       | 69.1        | 24.0        | 4.0         | 0.2                      |
| 1984 <sup>3</sup>            | 1,806.5              | 1.2           | 50.6        | 31.0        | 77.4        | 106.8       | 108.7       | 67.0        | 22.9        | 3.9         | 0.2                      |
| 1983 <sup>3</sup>            | 1,799.0              | 1.1           | 51.4        | 31.8        | 77.4        | 107.8       | 108.5       | 64.9        | 22.0        | 3.9         | 0.2                      |
| 1982 <sup>3</sup>            | 1,827.5              | 1.1           | 52.4        | 32.3        | 79.4        | 111.6       | 111.0       | 64.1        | 21.2        | 3.9         | 0.2                      |
| 1981 <sup>3</sup>            | 1,812.0              | 1.1           | 52.2        | 32.0        | 80.0        | 112.2       | 111.5       | 61.4        | 20.0        | 3.8         | 0.2                      |
| 1980 <sup>3</sup>            | 1,839.5              | 1.1           | 53.0        | 32.5        | 82.1        | 115.1       | 112.9       | 61.9        | 19.8        | 3.9         | 0.2                      |
| 1979 <sup>3</sup>            | 1,808.0              | 1.2           | 52.3        | 32.3        | 81.3        | 112.8       | 111.4       | 60.3        | 19.5        | 3.9         | 0.2                      |
| 1978 <sup>3</sup>            | 1,760.0              | 1.2           | 51.5        | 32.2        | 79.8        | 109.9       | 108.5       | 57.8        | 19.0        | 3.9         | 0.2                      |
| 1977 <sup>3</sup>            | 1,789.5              | 1.2           | 52.8        | 33.9        | 80.9        | 112.9       | 111.0       | 56.4        | 19.2        | 4.2         | 0.2                      |
| 1976 <sup>3</sup>            | 1,738.0              | 1.2           | 52.8        | 34.1        | 80.5        | 110.3       | 106.2       | 53.6        | 19.0        | 4.3         | 0.2                      |
| 1975 <sup>3</sup>            | 1,774.0              | 1.3           | 55.6        | 36.1        | 85.0        | 113.0       | 108.2       | 52.3        | 19.5        | 4.6         | 0.3                      |
| 1974 <sup>3</sup>            | 1,835.0              | 1.2           | 57.5        | 37.3        | 88.7        | 117.7       | 111.5       | 53.8        | 20.2        | 4.8         | 0.3                      |
| 1973 <sup>3</sup>            | 1,879.0              | 1.2           | 59.3        | 38.5        | 91.2        | 119.7       | 112.2       | 55.6        | 22.1        | 5.4         | 0.3                      |
| 1972 <sup>3</sup>            | 2,010.0              | 1.2           | 61.7        | 39.0        | 96.9        | 130.2       | 117.7       | 59.8        | 24.8        | 6.2         | 0.4                      |
| 1971 <sup>4</sup>            | 2,266.5              | 1.1           | 64.5        | 38.2        | 105.3       | 150.1       | 134.1       | 67.3        | 28.7        | 7.1         | 0.4                      |
| 1970 <sup>4</sup>            | 2,480.0              | 1.2           | 68.3        | 38.8        | 114.7       | 167.8       | 145.1       | 73.3        | 31.7        | 8.1         | 0.5                      |
| <b>White</b>                 |                      |               |             |             |             |             |             |             |             |             |                          |
| 1999                         | 2,065.0              | 0.6           | 44.6        | 24.8        | 73.5        | 107.0       | 121.1       | 93.2        | 38.8        | 7.3         | 0.4                      |
| 1998                         | 2,041.0              | 0.6           | 45.4        | 25.9        | 74.6        | 107.2       | 119.1       | 90.5        | 37.8        | 7.2         | 0.4                      |
| 1997                         | 2,009.0              | 0.7           | 46.3        | 27.1        | 75.9        | 106.7       | 116.6       | 87.8        | 36.4        | 6.9         | 0.4                      |
| 1996                         | 2,005.5              | 0.8           | 48.1        | 28.4        | 78.4        | 107.2       | 116.1       | 86.3        | 35.6        | 6.7         | 0.3                      |
| 1995                         | 1,989.0              | 0.8           | 50.1        | 30.0        | 81.2        | 106.3       | 114.8       | 84.6        | 34.5        | 6.4         | 0.3                      |
| 1994                         | 1,985.0              | 0.8           | 51.1        | 30.7        | 82.1        | 106.2       | 115.5       | 83.2        | 33.7        | 6.2         | 0.3                      |
| 1993                         | 1,982.0              | 0.8           | 51.1        | 30.3        | 82.1        | 106.9       | 116.6       | 82.1        | 32.7        | 5.9         | 0.3                      |
| 1992                         | 1,993.5              | 0.8           | 51.8        | 30.1        | 83.8        | 108.2       | 118.4       | 81.4        | 32.2        | 5.7         | 0.2                      |
| 1991                         | 1,995.5              | 0.8           | 52.8        | 30.7        | 83.5        | 109.0       | 118.8       | 80.5        | 31.8        | 5.2         | 0.2                      |
| 1990                         | 2,003.0              | 0.7           | 50.8        | 29.5        | 78.0        | 109.8       | 120.7       | 81.7        | 31.5        | 5.2         | 0.2                      |
| 1989                         | 1,931.0              | 0.7           | 47.9        | 28.1        | 72.9        | 106.9       | 117.8       | 78.1        | 29.7        | 4.9         | 0.2                      |
| 1988                         | 1,856.5              | 0.6           | 44.4        | 26.0        | 69.6        | 103.7       | 114.8       | 75.4        | 27.7        | 4.5         | 0.2                      |
| 1987                         | 1,804.5              | 0.6           | 42.5        | 24.6        | 68.9        | 102.3       | 112.3       | 73.0        | 25.9        | 4.1         | 0.2                      |
| 1986                         | 1,776.0              | 0.6           | 42.3        | 23.8        | 70.1        | 102.7       | 110.8       | 70.9        | 23.9        | 3.8         | 0.2                      |
| 1985                         | 1,787.0              | 0.6           | 43.3        | 24.4        | 70.4        | 104.1       | 112.3       | 69.9        | 23.3        | 3.7         | 0.2                      |
| 1984 <sup>3</sup>            | 1,748.5              | 0.6           | 42.9        | 24.3        | 68.4        | 102.7       | 109.8       | 67.7        | 22.2        | 3.6         | 0.2                      |
| 1983 <sup>3</sup>            | 1,740.5              | 0.6           | 43.9        | 25.0        | 68.8        | 103.8       | 109.4       | 65.3        | 21.3        | 3.6         | 0.2                      |
| 1982 <sup>3</sup>            | 1,767.0              | 0.6           | 45.0        | 25.5        | 70.8        | 107.7       | 111.9       | 64.0        | 20.4        | 3.6         | 0.2                      |
| 1981 <sup>3</sup>            | 1,748.0              | 0.5           | 44.9        | 25.4        | 71.5        | 108.3       | 112.3       | 61.0        | 19.0        | 3.4         | 0.2                      |
| 1980 <sup>3</sup>            | 1,773.0              | 0.6           | 45.4        | 25.5        | 73.2        | 111.1       | 113.8       | 61.2        | 18.8        | 3.5         | 0.2                      |
| <b>Black</b>                 |                      |               |             |             |             |             |             |             |             |             |                          |
| 1999                         | 2,146.5              | 2.6           | 81.0        | 52.0        | 122.8       | 141.7       | 101.9       | 64.5        | 30.8        | 6.5         | 0.3                      |
| 1998                         | 2,171.0              | 2.9           | 85.4        | 56.8        | 126.9       | 141.9       | 101.8       | 64.7        | 30.5        | 6.7         | 0.3                      |
| 1997                         | 2,154.0              | 3.3           | 88.2        | 60.8        | 130.1       | 139.0       | 99.5        | 64.3        | 29.7        | 6.5         | 0.3                      |
| 1996                         | 2,144.0              | 3.6           | 91.4        | 64.7        | 132.5       | 136.8       | 98.2        | 63.3        | 29.1        | 6.1         | 0.3                      |
| 1995                         | 2,175.0              | 4.2           | 96.1        | 69.7        | 137.1       | 137.1       | 98.6        | 64.0        | 28.7        | 6.0         | 0.3                      |
| 1994                         | 2,300.0              | 4.6           | 104.5       | 76.3        | 148.3       | 146.0       | 104.0       | 65.8        | 28.9        | 5.9         | 0.3                      |
| 1993                         | 2,384.5              | 4.6           | 108.6       | 79.8        | 151.9       | 152.6       | 108.4       | 67.3        | 29.2        | 5.9         | 0.3                      |
| 1992                         | 2,442.0              | 4.7           | 112.4       | 81.3        | 157.9       | 158.0       | 111.2       | 67.5        | 28.8        | 5.6         | 0.2                      |
| 1991                         | 2,480.0              | 4.8           | 115.5       | 84.1        | 158.6       | 160.9       | 113.1       | 67.7        | 28.3        | 5.5         | 0.2                      |
| 1990                         | 2,480.0              | 4.9           | 112.8       | 82.3        | 152.9       | 160.2       | 115.5       | 68.7        | 28.1        | 5.5         | 0.3                      |
| 1989                         | 2,432.5              | 5.1           | 111.5       | 81.9        | 151.9       | 156.8       | 114.4       | 66.3        | 26.7        | 5.4         | 0.3                      |
| 1988                         | 2,298.0              | 4.9           | 102.7       | 75.7        | 142.7       | 149.7       | 108.2       | 63.1        | 25.6        | 5.1         | 0.3                      |
| 1987                         | 2,198.0              | 4.8           | 97.6        | 72.1        | 135.8       | 142.7       | 104.3       | 60.6        | 24.6        | 4.8         | 0.2                      |
| 1986                         | 2,135.5              | 4.7           | 95.8        | 69.3        | 135.1       | 137.3       | 101.1       | 59.3        | 23.8        | 4.8         | 0.3                      |
| 1985                         | 2,109.0              | 4.5           | 95.4        | 69.3        | 132.4       | 135.0       | 100.2       | 57.9        | 23.9        | 4.6         | 0.3                      |
| 1984 <sup>3</sup>            | 2,070.5              | 4.4           | 94.1        | 69.2        | 128.1       | 132.2       | 98.4        | 56.7        | 23.3        | 4.8         | 0.2                      |
| 1983 <sup>3</sup>            | 2,066.0              | 4.1           | 93.9        | 69.6        | 127.1       | 131.9       | 98.4        | 56.2        | 23.3        | 5.1         | 0.3                      |
| 1982 <sup>3</sup>            | 2,106.5              | 4.0           | 94.3        | 69.7        | 128.9       | 135.4       | 101.3       | 57.5        | 23.3        | 5.1         | 0.4                      |
| 1981 <sup>3</sup>            | 2,117.5              | 4.0           | 94.5        | 69.3        | 131.0       | 136.5       | 102.3       | 57.4        | 23.1        | 5.4         | 0.3                      |
| 1980 <sup>3</sup>            | 2,176.5              | 4.3           | 97.8        | 72.5        | 135.1       | 140.0       | 103.9       | 59.9        | 23.5        | 5.6         | 0.3                      |

See footnotes at end of table.

**Table 4. Total fertility rates and birth rates by age of mother: United States, 1970-99, and by age and race of mother: United States, 1980-99 --Con.**

[Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5. Birth rates are live births per 1,000 women in specified group. Population enumerated as of April 1 for 1970, 1980, and 1990, and estimated as of July 1 for all other years]

| Year and race                      | Total fertility rate | Age of mother |             |             |             |             |             |             |             |             |                          |
|------------------------------------|----------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------|
|                                    |                      | 10-14 years   | 15-19 years |             |             | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-49 years <sup>1</sup> |
|                                    |                      |               | Total       | 15-17 years | 18-19 years |             |             |             |             |             |                          |
| <b>American Indian<sup>5</sup></b> |                      |               |             |             |             |             |             |             |             |             |                          |
| 1999                               | 2,056.5              | 1.6           | 67.8        | 41.4        | 110.6       | 137.1       | 102.4       | 64.3        | 30.7        | 7.1         | 0.3                      |
| 1998                               | 2,090.5              | 1.6           | 72.1        | 44.4        | 118.4       | 139.3       | 102.2       | 66.3        | 30.2        | 6.4         | *                        |
| 1997                               | 2,047.5              | 1.7           | 71.8        | 45.3        | 117.6       | 134.9       | 100.8       | 64.2        | 29.3        | 6.4         | 0.4                      |
| 1996                               | 2,030.0              | 1.7           | 73.9        | 46.4        | 122.3       | 133.9       | 98.5        | 63.2        | 28.5        | 6.3         | *                        |
| 1995                               | 2,033.5              | 1.8           | 78.0        | 47.8        | 130.7       | 132.5       | 98.4        | 62.2        | 27.7        | 6.1         | *                        |
| 1994                               | 2,080.0              | 1.9           | 80.8        | 51.3        | 130.3       | 134.2       | 104.1       | 61.2        | 27.5        | 5.9         | 0.4                      |
| 1993                               | 2,141.0              | 1.4           | 83.1        | 53.7        | 130.7       | 139.8       | 107.6       | 62.8        | 27.6        | 5.9         | *                        |
| 1992                               | 2,190.0              | 1.6           | 84.4        | 53.8        | 132.6       | 145.5       | 109.4       | 63.0        | 28.0        | 6.1         | *                        |
| 1991                               | 2,169.0              | 1.6           | 85.0        | 52.7        | 134.3       | 144.9       | 106.9       | 61.9        | 27.2        | 5.9         | 0.4                      |
| 1990                               | 2,183.0              | 1.6           | 81.1        | 48.5        | 129.3       | 148.7       | 110.3       | 61.5        | 27.5        | 5.9         | *                        |
| 1989                               | 2,247.0              | 1.5           | 82.7        | 51.6        | 128.9       | 152.4       | 114.2       | 64.8        | 27.4        | 6.4         | *                        |
| 1988                               | 2,153.5              | 1.7           | 77.5        | 49.7        | 121.1       | 145.2       | 110.9       | 64.5        | 25.6        | 5.3         | *                        |
| 1987                               | 2,099.0              | 1.7           | 77.2        | 48.8        | 122.2       | 140.0       | 107.9       | 63.0        | 24.4        | 5.6         | *                        |
| 1986                               | 2,082.0              | 1.8           | 78.1        | 48.7        | 125.3       | 138.8       | 107.9       | 60.7        | 23.8        | 5.3         | *                        |
| 1985                               | 2,128.0              | 1.7           | 79.2        | 47.7        | 124.1       | 139.1       | 109.6       | 62.6        | 27.4        | 6.0         | *                        |
| 1984 <sup>3</sup>                  | 2,136.0              | 1.7           | 81.5        | 50.7        | 124.7       | 142.4       | 109.2       | 60.5        | 26.3        | 5.6         | *                        |
| 1983 <sup>3</sup>                  | 2,180.5              | 1.9           | 84.2        | 55.2        | 121.4       | 145.5       | 113.7       | 58.9        | 25.5        | 6.4         | *                        |
| 1982 <sup>3</sup>                  | 2,213.0              | 1.4           | 83.5        | 52.6        | 127.6       | 148.1       | 115.8       | 60.9        | 26.9        | 6.0         | *                        |
| 1981 <sup>3</sup>                  | 2,090.0              | 2.1           | 78.4        | 49.7        | 121.5       | 141.2       | 105.6       | 58.9        | 25.2        | 6.6         | *                        |
| 1980 <sup>3</sup>                  | 2,162.5              | 1.9           | 82.2        | 51.5        | 129.5       | 143.7       | 106.6       | 61.8        | 28.1        | 8.2         | *                        |
| <b>Asian or Pacific Islander</b>   |                      |               |             |             |             |             |             |             |             |             |                          |
| 1999                               | 1,927.0              | 0.3           | 22.3        | 12.3        | 38.0        | 70.0        | 116.4       | 109.3       | 54.6        | 11.6        | 0.9                      |
| 1998                               | 1,867.5              | 0.4           | 23.1        | 13.8        | 38.3        | 68.8        | 110.4       | 105.1       | 52.8        | 12.0        | 0.9                      |
| 1997                               | 1,925.5              | 0.5           | 23.7        | 14.3        | 39.3        | 70.5        | 113.2       | 110.3       | 54.1        | 11.9        | 0.9                      |
| 1996                               | 1,907.5              | 0.6           | 24.6        | 14.9        | 40.4        | 70.7        | 111.2       | 109.2       | 52.2        | 12.2        | 0.8                      |
| 1995                               | 1,924.0              | 0.7           | 26.1        | 15.4        | 43.4        | 72.4        | 113.4       | 106.9       | 52.4        | 12.1        | 0.8                      |
| 1994                               | 1,943.0              | 0.7           | 27.1        | 16.1        | 44.1        | 73.1        | 118.6       | 105.2       | 51.3        | 11.6        | 1.0                      |
| 1993                               | 1,935.5              | 0.6           | 27.0        | 16.0        | 43.3        | 73.3        | 119.9       | 103.9       | 50.2        | 11.3        | 0.9                      |
| 1992                               | 1,942.0              | 0.7           | 26.6        | 15.2        | 43.1        | 74.6        | 121.0       | 103.0       | 50.6        | 11.0        | 0.9                      |
| 1991                               | 1,956.0              | 0.8           | 27.4        | 16.1        | 43.1        | 75.2        | 123.2       | 103.3       | 49.0        | 11.2        | 1.1                      |
| 1990                               | 2,002.5              | 0.7           | 26.4        | 16.0        | 40.2        | 79.2        | 126.3       | 106.5       | 49.6        | 10.7        | 1.1                      |
| 1989                               | 1,947.5              | 0.6           | 25.6        | 15.0        | 40.4        | 78.8        | 124.0       | 102.3       | 47.0        | 10.2        | 1.0                      |
| 1988                               | 1,983.5              | 0.6           | 24.2        | 13.6        | 39.6        | 80.7        | 128.0       | 104.4       | 47.5        | 10.3        | 1.0                      |
| 1987                               | 1,886.0              | 0.6           | 22.4        | 12.6        | 37.0        | 79.7        | 122.7       | 97.0        | 44.2        | 9.5         | 1.1                      |
| 1986                               | 1,836.0              | 0.5           | 22.8        | 12.1        | 38.8        | 79.2        | 119.9       | 92.6        | 41.9        | 9.3         | 1.0                      |
| 1985                               | 1,885.0              | 0.4           | 23.8        | 12.5        | 40.8        | 83.6        | 123.0       | 93.6        | 42.7        | 8.7         | 1.2                      |
| 1984 <sup>3</sup>                  | 1,892.0              | 0.5           | 24.2        | 12.6        | 40.7        | 86.7        | 124.3       | 92.4        | 40.6        | 8.7         | 1.0                      |
| 1983 <sup>3</sup>                  | 1,943.5              | 0.5           | 26.1        | 12.9        | 44.5        | 94.0        | 126.2       | 93.3        | 39.4        | 8.2         | 1.0                      |
| 1982 <sup>3</sup>                  | 2,015.5              | 0.4           | 29.4        | 14.0        | 50.8        | 98.9        | 130.9       | 94.4        | 39.2        | 8.8         | 1.1                      |
| 1981 <sup>3</sup>                  | 1,976.0              | 0.3           | 28.5        | 13.4        | 49.5        | 96.4        | 129.1       | 93.4        | 38.0        | 8.6         | 0.9                      |
| 1980 <sup>3</sup>                  | 1,953.5              | 0.3           | 26.2        | 12.0        | 46.2        | 93.3        | 127.4       | 96.0        | 38.3        | 8.5         | 0.7                      |

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in numerator.

<sup>1</sup> Beginning 1997, rates computed by relating births to women aged 45-54 years to women aged 45-49 years.

<sup>2</sup> For 1970-91 includes births to races not shown separately.

<sup>3</sup> Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.

<sup>4</sup> Based on a 50-percent sample of births.

<sup>5</sup> Includes births to Aleuts and Eskimos.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

**Table 5. Fertility rates and birth rates by live-birth order and race of mother: United States, 1980-99**

[Rates are live births per 1,000 women aged 15-44 years. Population enumerated as of April 1 for 1980 and 1990, and estimated as of July 1 for all other years. Figures for live-birth order not stated are distributed]

| Year and race of mother       | Fertility rate | Live-birth order |      |      |     |     |         |            |
|-------------------------------|----------------|------------------|------|------|-----|-----|---------|------------|
|                               |                | 1                | 2    | 3    | 4   | 5   | 6 and 7 | 8 and over |
| <b>All races <sup>1</sup></b> |                |                  |      |      |     |     |         |            |
| 1999 .....                    | 65.9           | 26.6             | 21.5 | 10.9 | 4.2 | 1.5 | 0.9     | 0.3        |
| 1998 .....                    | 65.6           | 26.4             | 21.4 | 10.8 | 4.2 | 1.5 | 0.9     | 0.3        |
| 1997 .....                    | 65.0           | 26.5             | 21.1 | 10.6 | 4.1 | 1.5 | 0.9     | 0.3        |
| 1996 .....                    | 65.3           | 26.8             | 21.1 | 10.5 | 4.1 | 1.5 | 0.9     | 0.3        |
| 1995 .....                    | 65.6           | 27.3             | 21.1 | 10.5 | 4.0 | 1.5 | 0.9     | 0.3        |
| 1994 .....                    | 66.7           | 27.5             | 21.5 | 10.7 | 4.2 | 1.6 | 1.0     | 0.3        |
| 1993 .....                    | 67.6           | 27.5             | 21.9 | 11.0 | 4.3 | 1.6 | 1.0     | 0.3        |
| 1992 .....                    | 68.9           | 27.8             | 22.3 | 11.3 | 4.4 | 1.7 | 1.0     | 0.3        |
| 1991 .....                    | 69.6           | 28.3             | 22.4 | 11.4 | 4.5 | 1.7 | 1.0     | 0.3        |
| 1990 .....                    | 70.9           | 29.0             | 22.8 | 11.7 | 4.5 | 1.7 | 1.0     | 0.3        |
| 1989 .....                    | 69.2           | 28.4             | 22.4 | 11.3 | 4.3 | 1.6 | 0.9     | 0.3        |
| 1988 .....                    | 67.3           | 27.6             | 22.0 | 10.9 | 4.1 | 1.5 | 0.9     | 0.3        |
| 1987 .....                    | 65.8           | 27.2             | 21.6 | 10.5 | 3.9 | 1.4 | 0.8     | 0.3        |
| 1986 .....                    | 65.4           | 27.2             | 21.6 | 10.3 | 3.8 | 1.4 | 0.8     | 0.3        |
| 1985 .....                    | 66.3           | 27.6             | 22.0 | 10.4 | 3.8 | 1.4 | 0.8     | 0.3        |
| 1984 <sup>2</sup> .....       | 65.5           | 27.4             | 21.7 | 10.1 | 3.7 | 1.4 | 0.9     | 0.3        |
| 1983 <sup>2</sup> .....       | 65.7           | 27.8             | 21.5 | 10.1 | 3.7 | 1.4 | 0.9     | 0.3        |
| 1982 <sup>2</sup> .....       | 67.3           | 28.6             | 22.0 | 10.2 | 3.8 | 1.4 | 0.9     | 0.3        |
| 1981 <sup>2</sup> .....       | 67.3           | 29.0             | 21.6 | 10.1 | 3.8 | 1.5 | 0.9     | 0.4        |
| 1980 <sup>2</sup> .....       | 68.4           | 29.5             | 21.8 | 10.3 | 3.9 | 1.5 | 1.0     | 0.4        |
| <b>White</b>                  |                |                  |      |      |     |     |         |            |
| 1999 .....                    | 65.1           | 26.4             | 21.6 | 10.8 | 4.0 | 1.4 | 0.8     | 0.2        |
| 1998 .....                    | 64.6           | 26.1             | 21.5 | 10.7 | 3.9 | 1.3 | 0.8     | 0.2        |
| 1997 .....                    | 63.9           | 26.2             | 21.2 | 10.4 | 3.8 | 1.3 | 0.8     | 0.2        |
| 1996 .....                    | 64.3           | 26.6             | 21.2 | 10.4 | 3.8 | 1.3 | 0.8     | 0.2        |
| 1995 .....                    | 64.4           | 26.9             | 21.1 | 10.3 | 3.8 | 1.3 | 0.7     | 0.2        |
| 1994 .....                    | 64.9           | 27.0             | 21.4 | 10.4 | 3.8 | 1.3 | 0.8     | 0.2        |
| 1993 .....                    | 65.4           | 27.0             | 21.7 | 10.5 | 3.9 | 1.4 | 0.8     | 0.2        |
| 1992 .....                    | 66.5           | 27.3             | 22.0 | 10.8 | 4.0 | 1.4 | 0.8     | 0.2        |
| 1991 .....                    | 67.0           | 27.8             | 22.0 | 10.8 | 4.0 | 1.4 | 0.8     | 0.2        |
| 1990 .....                    | 68.3           | 28.4             | 22.4 | 11.1 | 4.0 | 1.4 | 0.8     | 0.2        |
| 1989 .....                    | 66.4           | 27.6             | 21.9 | 10.7 | 3.8 | 1.3 | 0.7     | 0.2        |
| 1988 .....                    | 64.5           | 26.8             | 21.6 | 10.4 | 3.6 | 1.2 | 0.7     | 0.2        |
| 1987 .....                    | 63.3           | 26.5             | 21.3 | 10.0 | 3.5 | 1.2 | 0.7     | 0.2        |
| 1986 .....                    | 63.1           | 26.6             | 21.3 | 9.8  | 3.4 | 1.2 | 0.7     | 0.2        |
| 1985 .....                    | 64.1           | 27.0             | 21.8 | 9.9  | 3.4 | 1.2 | 0.7     | 0.2        |
| 1984 <sup>2</sup> .....       | 63.2           | 26.8             | 21.4 | 9.6  | 3.3 | 1.2 | 0.7     | 0.2        |
| 1983 <sup>2</sup> .....       | 63.4           | 27.2             | 21.2 | 9.5  | 3.3 | 1.2 | 0.7     | 0.2        |
| 1982 <sup>2</sup> .....       | 64.8           | 28.0             | 21.6 | 9.6  | 3.4 | 1.2 | 0.7     | 0.3        |
| 1981 <sup>2</sup> .....       | 64.8           | 28.4             | 21.1 | 9.5  | 3.4 | 1.2 | 0.8     | 0.3        |
| 1980 <sup>2</sup> .....       | 65.6           | 28.8             | 21.3 | 9.6  | 3.4 | 1.3 | 0.8     | 0.3        |
| <b>Black</b>                  |                |                  |      |      |     |     |         |            |
| 1999 .....                    | 70.1           | 26.5             | 20.9 | 12.4 | 5.7 | 2.5 | 1.7     | 0.6        |
| 1998 .....                    | 71.0           | 27.0             | 21.1 | 12.3 | 5.7 | 2.6 | 1.7     | 0.6        |
| 1997 .....                    | 70.7           | 27.3             | 20.7 | 12.1 | 5.7 | 2.5 | 1.8     | 0.6        |
| 1996 .....                    | 70.7           | 27.6             | 20.5 | 12.0 | 5.6 | 2.6 | 1.8     | 0.6        |
| 1995 .....                    | 72.3           | 28.7             | 20.7 | 12.0 | 5.7 | 2.6 | 1.8     | 0.6        |
| 1994 .....                    | 76.9           | 29.8             | 22.2 | 13.1 | 6.3 | 2.9 | 2.0     | 0.6        |
| 1993 .....                    | 80.5           | 30.2             | 23.4 | 14.1 | 6.9 | 3.1 | 2.2     | 0.7        |
| 1992 .....                    | 83.2           | 30.6             | 24.3 | 15.0 | 7.2 | 3.3 | 2.2     | 0.6        |
| 1991 .....                    | 85.2           | 31.5             | 25.0 | 15.4 | 7.4 | 3.3 | 2.1     | 0.6        |
| 1990 .....                    | 86.8           | 32.4             | 25.6 | 15.6 | 7.4 | 3.2 | 2.0     | 0.6        |
| 1989 .....                    | 86.2           | 32.9             | 25.4 | 15.3 | 7.1 | 3.0 | 1.9     | 0.6        |
| 1988 .....                    | 82.6           | 31.8             | 24.6 | 14.4 | 6.6 | 2.8 | 1.8     | 0.5        |
| 1987 .....                    | 80.1           | 31.2             | 23.8 | 13.9 | 6.3 | 2.7 | 1.7     | 0.5        |
| 1986 .....                    | 78.9           | 31.0             | 23.4 | 13.5 | 6.1 | 2.6 | 1.7     | 0.5        |
| 1985 .....                    | 78.8           | 31.0             | 23.4 | 13.4 | 6.1 | 2.6 | 1.7     | 0.5        |
| 1984 <sup>2</sup> .....       | 78.1           | 30.9             | 23.0 | 13.2 | 6.0 | 2.6 | 1.7     | 0.6        |
| 1983 <sup>2</sup> .....       | 78.7           | 31.1             | 23.1 | 13.2 | 6.1 | 2.7 | 1.8     | 0.6        |
| 1982 <sup>2</sup> .....       | 80.9           | 31.7             | 23.9 | 13.8 | 6.3 | 2.7 | 1.8     | 0.7        |
| 1981 <sup>2</sup> .....       | 82.0           | 32.3             | 24.2 | 13.7 | 6.3 | 2.8 | 1.9     | 0.8        |
| 1980 <sup>2</sup> .....       | 84.9           | 33.7             | 24.7 | 14.0 | 6.5 | 2.9 | 2.1     | 0.9        |

<sup>1</sup> Includes races other than white and black.

<sup>2</sup> Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States: see Technical notes.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

**Table 6. Live births, birth rates, and fertility rates by Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, 1989-99**

[Birth rates are live births per 1,000 population in specified group. Fertility rates are live births per 1,000 women aged 15-44 years in specified group]

| Measure and year        | Hispanic                 |         |         |              |        |                            | Non-Hispanic               |                    |           |         |
|-------------------------|--------------------------|---------|---------|--------------|--------|----------------------------|----------------------------|--------------------|-----------|---------|
|                         | All origins <sup>1</sup> | Total   | Mexican | Puerto Rican | Cuban  | Central and South American | Other and unknown Hispanic | Total <sup>2</sup> | White     | Black   |
| <b>Number</b>           |                          |         |         |              |        |                            |                            |                    |           |         |
| 1999 .....              | 3,959,417                | 764,339 | 540,674 | 57,138       | 13,088 | 103,307                    | 50,132                     | 3,147,580          | 2,346,450 | 588,981 |
| 1998 .....              | 3,941,553                | 734,661 | 516,011 | 57,349       | 13,226 | 98,226                     | 49,849                     | 3,158,975          | 2,361,462 | 593,127 |
| 1997 .....              | 3,880,894                | 709,767 | 499,024 | 55,450       | 12,887 | 97,405                     | 45,001                     | 3,115,174          | 2,333,363 | 581,431 |
| 1996 .....              | 3,891,494                | 701,339 | 489,666 | 54,863       | 12,613 | 97,888                     | 46,309                     | 3,133,484          | 2,358,989 | 578,099 |
| 1995 .....              | 3,899,589                | 679,768 | 469,615 | 54,824       | 12,473 | 94,996                     | 47,860                     | 3,160,495          | 2,382,638 | 587,781 |
| 1994 .....              | 3,952,767                | 665,026 | 454,536 | 57,240       | 11,889 | 93,485                     | 47,876                     | 3,245,115          | 2,438,855 | 619,198 |
| 1993 .....              | 4,000,240                | 654,418 | 443,733 | 58,102       | 11,916 | 92,371                     | 48,296                     | 3,295,345          | 2,472,031 | 641,273 |
| 1992 <sup>3</sup> ..... | 4,049,024                | 643,271 | 432,047 | 59,569       | 11,472 | 89,031                     | 51,152                     | 3,365,862          | 2,527,207 | 657,450 |
| 1991 <sup>3</sup> ..... | 4,094,566                | 623,085 | 411,233 | 59,833       | 11,058 | 86,908                     | 54,053                     | 3,434,464          | 2,589,878 | 666,758 |
| 1990 <sup>4</sup> ..... | 4,092,994                | 595,073 | 385,640 | 58,807       | 11,311 | 83,008                     | 56,307                     | 3,457,417          | 2,626,500 | 661,701 |
| 1989 <sup>5</sup> ..... | 3,903,012                | 532,249 | 327,233 | 56,229       | 10,842 | 72,443                     | 65,502                     | 3,297,493          | 2,526,367 | 611,269 |
| <b>Birth rate</b>       |                          |         |         |              |        |                            |                            |                    |           |         |
| 1999 .....              | 14.5                     | 24.4    | 26.4    | 19.4         | 9.7    | <sup>6</sup> 23.4          |                            | 13.2               | 12.2      | 17.9    |
| 1998 .....              | 14.6                     | 24.3    | 26.4    | 19.0         | 10.0   | <sup>6</sup> 23.2          |                            | 13.4               | 12.3      | 18.2    |
| 1997 .....              | 14.5                     | 24.2    | 26.8    | 18.1         | 10.1   | <sup>6</sup> 22.4          |                            | 13.3               | 12.2      | 18.1    |
| 1996 .....              | 14.7                     | 24.8    | 27.4    | 17.9         | 10.7   | <sup>6</sup> 23.4          |                            | 13.5               | 12.4      | 18.3    |
| 1995 .....              | 14.8                     | 25.2    | 26.9    | 19.7         | 11.0   | <sup>6</sup> 25.3          |                            | 13.7               | 12.6      | 18.8    |
| 1994 .....              | 15.2                     | 25.5    | 27.0    | 21.4         | 10.8   | <sup>6</sup> 25.7          |                            | 14.0               | 12.8      | 20.0    |
| 1993 .....              | 15.5                     | 26.0    | 27.4    | 21.9         | 10.5   | <sup>6</sup> 26.9          |                            | 14.4               | 13.1      | 21.1    |
| 1992 <sup>7</sup> ..... | 15.9                     | 26.5    | 27.8    | 23.2         | 10.1   | <sup>6</sup> 27.9          |                            | 14.8               | 13.5      | 21.9    |
| 1991 <sup>7</sup> ..... | 16.3                     | 26.7    | 29.2    | 21.0         | 10.1   | <sup>6</sup> 26.5          |                            | 15.2               | 13.9      | 22.5    |
| 1990 <sup>4</sup> ..... | 16.7                     | 26.7    | 28.7    | 21.6         | 10.9   | <sup>6</sup> 27.5          |                            | 15.7               | 14.4      | 23.0    |
| 1989 <sup>5</sup> ..... | 16.3                     | 26.2    | 25.7    | 23.7         | 10.0   | <sup>6</sup> 28.3          |                            | 15.4               | 14.2      | 22.8    |
| <b>Fertility rate</b>   |                          |         |         |              |        |                            |                            |                    |           |         |
| 1999 .....              | 65.9                     | 102.0   | 111.6   | 77.7         | 51.2   | <sup>6</sup> 92.6          |                            | 60.7               | 57.8      | 72.2    |
| 1998 .....              | 65.6                     | 101.1   | 112.1   | 75.5         | 50.1   | <sup>6</sup> 90.2          |                            | 60.7               | 57.7      | 73.0    |
| 1997 .....              | 65.0                     | 102.8   | 116.6   | 71.7         | 57.4   | <sup>6</sup> 87.6          |                            | 60.1               | 57.0      | 72.4    |
| 1996 .....              | 65.3                     | 104.9   | 119.3   | 71.3         | 58.9   | <sup>6</sup> 90.2          |                            | 60.3               | 57.3      | 72.5    |
| 1995 .....              | 65.6                     | 105.0   | 117.0   | 75.7         | 55.1   | <sup>6</sup> 94.5          |                            | 60.8               | 57.6      | 74.5    |
| 1994 .....              | 66.7                     | 105.6   | 115.4   | 81.9         | 55.9   | <sup>6</sup> 97.7          |                            | 62.0               | 58.3      | 79.0    |
| 1993 .....              | 67.6                     | 106.9   | 114.8   | 82.5         | 55.5   | <sup>6</sup> 105.0         |                            | 63.1               | 59.0      | 82.7    |
| 1992 <sup>7</sup> ..... | 68.9                     | 108.6   | 116.0   | 89.9         | 50.3   | <sup>6</sup> 107.0         |                            | 64.4               | 60.2      | 85.5    |
| 1991 <sup>7</sup> ..... | 69.6                     | 108.1   | 121.6   | 80.9         | 49.1   | <sup>6</sup> 99.3          |                            | 65.4               | 61.0      | 87.6    |
| 1990 <sup>4</sup> ..... | 71.0                     | 107.7   | 118.9   | 82.9         | 52.6   | <sup>6</sup> 102.7         |                            | 67.1               | 62.8      | 89.0    |
| 1989 <sup>5</sup> ..... | 69.2                     | 104.9   | 106.6   | 86.6         | 49.8   | <sup>6</sup> 95.8          |                            | 65.7               | 60.5      | 84.8    |

<sup>1</sup> Includes origin not stated.<sup>2</sup> Includes races other than white and black.<sup>3</sup> Excludes data for New Hampshire, which did not report Hispanic origin.<sup>4</sup> Excludes data for New Hampshire and Oklahoma, which did not report Hispanic origin.<sup>5</sup> Excludes data for Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin.<sup>6</sup> Includes Central and South American and other and unknown Hispanic.<sup>7</sup> Rates are estimated for the United States based on birth data for 49 States and the District of Columbia. Births for New Hampshire that did not report Hispanic origin, are included in the rates for non-Hispanic women; see Technical notes.

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.

**Table 7. Live births by age of mother, live-birth order, Hispanic origin of mother, and by race for mothers of non-Hispanic origin: United States, 1999**

[Live-birth order refers to number of children born alive to mother. Includes births with stated origin of mother only]

| Live-birth order and origin of mother | All ages | Age of mother  |             |          |          |          |          |             |             |             |             |             |             |             |          |
|---------------------------------------|----------|----------------|-------------|----------|----------|----------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------|
|                                       |          | Under 15 years | 15-19 years |          |          |          |          | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-49 years | 50-54 years |          |
|                                       |          |                | Total       | 15 years | 16 years | 17 years | 18 years |             |             |             |             |             |             |             | 19 years |
| <b>Hispanic</b>                       |          |                |             |          |          |          |          |             |             |             |             |             |             |             |          |
| Total .....                           | 764,339  | 2,725          | 124,677     | 7,288    | 15,828   | 25,113   | 33,806   | 42,642      | 231,475     | 203,985     | 131,369     | 58,146      | 11,440      | 513         | 9        |
| 1st child .....                       | 283,116  | 2,638          | 94,218      | 6,880    | 14,220   | 20,565   | 24,854   | 27,699      | 98,947      | 53,434      | 23,997      | 8,375       | 1,433       | 73          | 1        |
| 2d child .....                        | 232,784  | 52             | 24,478      | 320      | 1,364    | 3,906    | 7,346    | 11,542      | 82,799      | 70,561      | 38,531      | 14,102      | 2,183       | 76          | 2        |
| 3d child .....                        | 141,471  | 2              | 4,282       | 18       | 85       | 389      | 1,143    | 2,647       | 35,149      | 48,762      | 35,847      | 14,939      | 2,403       | 84          | 3        |
| 4th child .....                       | 61,448   | -              | 502         | 2        | 3        | 31       | 118      | 348         | 10,098      | 20,172      | 18,759      | 9,840       | 2,007       | 69          | 1        |
| 5th child .....                       | 23,891   | -              | 69          | -        | 1        | 2        | 14       | 52          | 2,404       | 6,776       | 7,957       | 5,305       | 1,316       | 63          | 1        |
| 6th child .....                       | 9,621    | -              | 4           | 2        | -        | -        | 1        | 1           | 465         | 2,222       | 3,313       | 2,713       | 850         | 54          | -        |
| 7th child .....                       | 4,053    | -              | 1           | -        | -        | -        | -        | 1           | 125         | 690         | 1,396       | 1,289       | 522         | 30          | -        |
| 8th child and over .....              | 3,491    | -              | -           | -        | -        | -        | -        | -           | 35          | 401         | 992         | 1,320       | 681         | 61          | 1        |
| Not stated .....                      | 4,464    | 33             | 1,123       | 66       | 155      | 220      | 330      | 352         | 1,453       | 967         | 577         | 263         | 45          | 3           | -        |
| <b>Mexican</b>                        |          |                |             |          |          |          |          |             |             |             |             |             |             |             |          |
| Total .....                           | 540,674  | 2,031          | 92,204      | 5,450    | 11,809   | 18,716   | 24,932   | 31,297      | 169,899     | 146,115     | 86,834      | 36,182      | 7,089       | 317         | 3        |
| 1st child .....                       | 195,036  | 1,961          | 69,110      | 5,110    | 10,564   | 15,253   | 18,055   | 20,128      | 70,889      | 35,060      | 13,028      | 4,253       | 700         | 35          | -        |
| 2d child .....                        | 161,317  | 41             | 18,488      | 263      | 1,044    | 2,961    | 5,614    | 8,606       | 61,576      | 50,033      | 22,959      | 7,143       | 1,046       | 31          | -        |
| 3d child .....                        | 102,687  | 1              | 3,255       | 15       | 63       | 297      | 885      | 1,995       | 26,414      | 36,945      | 25,331      | 9,351       | 1,349       | 40          | 1        |
| 4th child .....                       | 46,439   | -              | 372         | 2        | 3        | 21       | 93       | 253         | 7,605       | 15,586      | 14,398      | 7,056       | 1,374       | 48          | -        |
| 5th child .....                       | 18,457   | -              | 55          | -        | 1        | 2        | 13       | 39          | 1,844       | 5,246       | 6,262       | 4,033       | 972         | 44          | 1        |
| 6th child .....                       | 7,457    | -              | 3           | 2        | -        | -        | -        | 1           | 353         | 1,705       | 2,592       | 2,113       | 652         | 39          | -        |
| 7th child .....                       | 3,151    | -              | 1           | -        | -        | -        | -        | 1           | 91          | 521         | 1,094       | 1,020       | 401         | 23          | -        |
| 8th child and over .....              | 2,760    | -              | -           | -        | -        | -        | -        | -           | 30          | 302         | 768         | 1,035       | 570         | 54          | 1        |
| Not stated .....                      | 3,370    | 28             | 920         | 58       | 134      | 182      | 272      | 274         | 1,097       | 717         | 402         | 178         | 25          | 3           | -        |
| <b>Puerto Rican</b>                   |          |                |             |          |          |          |          |             |             |             |             |             |             |             |          |
| Total .....                           | 57,138   | 242            | 11,836      | 677      | 1,508    | 2,440    | 3,226    | 3,985       | 18,289      | 13,616      | 8,607       | 3,765       | 755         | 27          | 1        |
| 1st child .....                       | 22,359   | 238            | 8,857       | 655      | 1,367    | 1,974    | 2,383    | 2,478       | 6,903       | 3,603       | 1,923       | 679         | 146         | 10          | -        |
| 2d child .....                        | 17,783   | 2              | 2,362       | 17       | 118      | 394      | 678      | 1,155       | 6,640       | 4,560       | 2,882       | 1,167       | 165         | 5           | -        |
| 3d child .....                        | 9,722    | -              | 418         | -        | 10       | 43       | 115      | 250         | 3,164       | 3,047       | 1,939       | 958         | 187         | 8           | 1        |
| 4th child .....                       | 4,023    | -              | 66          | -        | -        | 4        | 13       | 49          | 1,054       | 1,389       | 972         | 432         | 109         | 1           | -        |
| 5th child .....                       | 1,531    | -              | 5           | -        | -        | -        | 1        | 4           | 265         | 541         | 422         | 246         | 51          | 1           | -        |
| 6th child .....                       | 644      | -              | -           | -        | -        | -        | -        | -           | 56          | 222         | 211         | 111         | 43          | 1           | -        |
| 7th child .....                       | 288      | -              | -           | -        | -        | -        | -        | -           | 12          | 81          | 102         | 68          | 24          | 1           | -        |
| 8th child and over .....              | 243      | -              | -           | -        | -        | -        | -        | -           | 1           | 51          | 83          | 83          | 25          | -           | -        |
| Not stated .....                      | 545      | 2              | 128         | 5        | 13       | 25       | 36       | 49          | 194         | 122         | 73          | 21          | 5           | -           | -        |
| <b>Cuban</b>                          |          |                |             |          |          |          |          |             |             |             |             |             |             |             |          |
| Total .....                           | 13,088   | 25             | 980         | 56       | 119      | 179      | 259      | 367         | 2,420       | 3,659       | 3,629       | 2,027       | 334         | 14          | -        |
| 1st child .....                       | 5,723    | 24             | 805         | 53       | 114      | 153      | 211      | 274         | 1,423       | 1,726       | 1,181       | 475         | 85          | 4           | -        |
| 2d child .....                        | 4,828    | -              | 149         | 3        | 4        | 26       | 40       | 76          | 768         | 1,367       | 1,587       | 837         | 117         | 3           | -        |
| 3d child .....                        | 1,830    | -              | 24          | -        | 1        | -        | 8        | 15          | 191         | 427         | 641         | 464         | 80          | 3           | -        |
| 4th child .....                       | 468      | -              | 2           | -        | -        | -        | -        | 2           | 28          | 95          | 157         | 152         | 31          | 3           | -        |
| 5th child .....                       | 138      | -              | -           | -        | -        | -        | -        | -           | 5           | 29          | 43          | 48          | 12          | 1           | -        |
| 6th child .....                       | 47       | -              | -           | -        | -        | -        | -        | -           | 2           | 7           | 11          | 26          | 1           | -           | -        |
| 7th child .....                       | 18       | -              | -           | -        | -        | -        | -        | -           | 1           | 2           | 4           | 8           | 3           | -           | -        |
| 8th child and over .....              | 18       | -              | -           | -        | -        | -        | -        | -           | -           | 1           | 3           | 11          | 3           | -           | -        |
| Not stated .....                      | 18       | 1              | -           | -        | -        | -        | -        | -           | 2           | 5           | 2           | 6           | 2           | -           | -        |
| <b>Central and South American</b>     |          |                |             |          |          |          |          |             |             |             |             |             |             |             |          |
| Total .....                           | 103,307  | 182            | 10,112      | 460      | 1,115    | 1,862    | 2,792    | 3,883       | 25,850      | 28,472      | 23,759      | 12,259      | 2,540       | 131         | 2        |
| 1st child .....                       | 39,477   | 176            | 8,121       | 439      | 1,018    | 1,600    | 2,247    | 2,817       | 13,314      | 9,485       | 5,789       | 2,204       | 367         | 20          | 1        |
| 2d child .....                        | 33,300   | 4              | 1,666       | 19       | 85       | 234      | 475      | 853         | 8,517       | 10,334      | 8,291       | 3,799       | 658         | 30          | 1        |
| 3d child .....                        | 18,681   | 1              | 266         | 1        | 8        | 22       | 52       | 183         | 3,033       | 5,684       | 5,848       | 3,203       | 617         | 29          | -        |
| 4th child .....                       | 7,194    | -              | 22          | -        | -        | 2        | 5        | 15          | 722         | 2,017       | 2,367       | 1,645       | 406         | 15          | -        |
| 5th child .....                       | 2,543    | -              | 5           | -        | -        | -        | -        | 5           | 129         | 604         | 848         | 728         | 215         | 14          | -        |
| 6th child .....                       | 1,028    | -              | 1           | -        | -        | -        | 1        | -           | 25          | 181         | 335         | 351         | 124         | 11          | -        |
| 7th child .....                       | 418      | -              | -           | -        | -        | -        | -        | -           | 8           | 53          | 126         | 147         | 79          | 5           | -        |
| 8th child and over .....              | 328      | -              | -           | -        | -        | -        | -        | -           | 3           | 29          | 91          | 135         | 63          | 7           | -        |
| Not stated .....                      | 338      | 1              | 31          | 1        | 4        | 4        | 12       | 10          | 99          | 85          | 64          | 47          | 11          | -           | -        |
| <b>Other and unknown</b>              |          |                |             |          |          |          |          |             |             |             |             |             |             |             |          |
| Total .....                           | 50,132   | 245            | 9,545       | 645      | 1,277    | 1,916    | 2,597    | 3,110       | 15,017      | 12,123      | 8,540       | 3,913       | 722         | 24          | 3        |
| 1st child .....                       | 20,521   | 239            | 7,325       | 623      | 1,157    | 1,585    | 1,958    | 2,002       | 6,418       | 3,560       | 2,076       | 764         | 135         | 4           | -        |
| 2d child .....                        | 15,556   | 5              | 1,813       | 18       | 113      | 291      | 539      | 852         | 5,298       | 4,267       | 2,812       | 1,156       | 197         | 7           | 1        |
| 3d child .....                        | 8,551    | -              | 319         | 2        | 3        | 27       | 83       | 204         | 2,347       | 2,659       | 2,088       | 963         | 170         | 4           | 1        |
| 4th child .....                       | 3,324    | -              | 40          | -        | -        | 4        | 7        | 29          | 689         | 1,085       | 865         | 555         | 87          | 2           | 1        |
| 5th child .....                       | 1,222    | -              | 4           | -        | -        | -        | -        | 4           | 161         | 356         | 382         | 250         | 66          | 3           | -        |
| 6th child .....                       | 445      | -              | -           | -        | -        | -        | -        | -           | 29          | 107         | 164         | 112         | 30          | 3           | -        |
| 7th child .....                       | 178      | -              | -           | -        | -        | -        | -        | -           | 13          | 33          | 70          | 46          | 15          | 1           | -        |
| 8th child and over .....              | 142      | -              | -           | -        | -        | -        | -        | -           | 1           | 18          | 47          | 56          | 20          | -           | -        |
| Not stated .....                      | 193      | 1              | 44          | 2        | 4        | 9        | 10       | 19          | 61          | 38          | 36          | 11          | 2           | -           | -        |

See footnotes at end of table.



**Table 7. Live births by age of mother, live-birth order, Hispanic origin of mother, and by race for mothers of non-Hispanic origin: United States, 1999 --Con.**

[Live-birth order refers to number of children born alive to mother. Includes births with stated origin of mother only]

| Live-birth order and origin of mother | All ages  | Age of mother  |             |          |          |          |          |             |             |             |             |             |             |             |          |
|---------------------------------------|-----------|----------------|-------------|----------|----------|----------|----------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|----------|
|                                       |           | Under 15 years | 15-19 years |          |          |          |          | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-49 years | 50-54 years |          |
|                                       |           |                | Total       | 15 years | 16 years | 17 years | 18 years |             |             |             |             |             |             |             | 19 years |
| Non-Hispanic                          |           |                |             |          |          |          |          |             |             |             |             |             |             |             |          |
| Total <sup>1</sup> .....              | 3,147,580 | 6,240          | 346,698     | 15,409   | 35,189   | 63,243   | 98,809   | 134,048     | 740,611     | 861,802     | 748,604     | 369,586     | 70,317      | 3,569       | 153      |
| 1st child .....                       | 1,287,491 | 6,102          | 273,298     | 14,753   | 32,379   | 54,652   | 77,857   | 93,657      | 345,192     | 334,448     | 225,757     | 85,893      | 15,856      | 894         | 51       |
| 2d child .....                        | 1,037,940 | 106            | 60,245      | 583      | 2,516    | 7,504    | 17,539   | 32,103      | 252,823     | 299,186     | 278,936     | 125,128     | 20,612      | 868         | 36       |
| 3d child .....                        | 504,463   | 5              | 10,272      | 15       | 158      | 750      | 2,684    | 6,665       | 101,006     | 144,407     | 148,395     | 85,112      | 14,606      | 630         | 30       |
| 4th child .....                       | 186,191   | 1              | 1,344       | 1        | 11       | 57       | 301      | 974         | 29,196      | 52,341      | 55,968      | 38,977      | 7,968       | 380         | 16       |
| 5th child .....                       | 66,336    | -              | 165         | -        | -        | 4        | 37       | 124         | 7,529       | 18,088      | 20,076      | 15,935      | 4,326       | 216         | 1        |
| 6th child .....                       | 27,365    | -              | 25          | -        | 2        | 3        | 4        | 16          | 1,896       | 6,608       | 8,887       | 7,494       | 2,308       | 144         | 3        |
| 7th child .....                       | 12,596    | -              | 5           | -        | -        | -        | 2        | 3           | 416         | 2,433       | 4,141       | 4,041       | 1,455       | 97          | 8        |
| 8th child and over .....              | 14,012    | -              | 3           | -        | -        | -        | 1        | 2           | 154         | 1,451       | 3,769       | 5,459       | 2,851       | 320         | 5        |
| Not stated .....                      | 11,186    | 26             | 1,341       | 57       | 123      | 273      | 384      | 504         | 2,399       | 2,840       | 2,675       | 1,547       | 335         | 20          | 3        |
| White .....                           | 2,346,450 | 2,048          | 212,923     | 6,963    | 18,886   | 37,671   | 62,282   | 87,121      | 514,386     | 663,569     | 600,830     | 294,590     | 55,175      | 2,808       | 121      |
| 1st child .....                       | 971,745   | 2,015          | 174,664     | 6,766    | 17,903   | 33,917   | 51,692   | 64,386      | 256,066     | 270,261     | 184,810     | 70,162      | 12,966      | 762         | 39       |
| 2d child .....                        | 794,532   | 25             | 32,729      | 160      | 858      | 3,347    | 9,271    | 19,093      | 177,643     | 236,926     | 229,123     | 100,789     | 16,564      | 701         | 32       |
| 3d child .....                        | 372,667   | -              | 4,215       | 3        | 45       | 231      | 981      | 2,955       | 61,617      | 106,540     | 119,601     | 68,825      | 11,351      | 491         | 27       |
| 4th child .....                       | 127,988   | -              | 400         | -        | 1        | 12       | 77       | 310         | 14,162      | 33,956      | 42,353      | 30,650      | 6,158       | 295         | 14       |
| 5th child .....                       | 40,983    | -              | 49          | -        | -        | 1        | 10       | 38          | 2,651       | 9,702       | 13,552      | 11,705      | 3,172       | 151         | 1        |
| 6th child .....                       | 15,669    | -              | 7           | -        | 1        | 1        | -        | 5           | 521         | 2,860       | 5,338       | 5,185       | 1,653       | 103         | 2        |
| 7th child .....                       | 6,923     | -              | 2           | -        | -        | -        | 1        | 1           | 88          | 886         | 2,244       | 2,641       | 993         | 65          | 4        |
| 8th child and over .....              | 7,816     | -              | 1           | -        | -        | -        | -        | 1           | 56          | 378         | 1,674       | 3,422       | 2,058       | 227         | -        |
| Not stated .....                      | 8,127     | 8              | 856         | 34       | 78       | 162      | 250      | 332         | 1,582       | 2,060       | 2,135       | 1,211       | 260         | 13          | 2        |
| Black .....                           | 588,981   | 3,890          | 118,285     | 7,698    | 14,573   | 22,580   | 32,155   | 41,279      | 188,247     | 134,784     | 88,403      | 45,746      | 9,223       | 392         | 11       |
| 1st child .....                       | 221,337   | 3,786          | 86,434      | 7,282    | 12,894   | 18,195   | 22,799   | 25,264      | 69,070      | 33,356      | 19,041      | 8,089       | 1,497       | 58          | 6        |
| 2d child .....                        | 174,340   | 81             | 24,843      | 383      | 1,528    | 3,773    | 7,453    | 11,706      | 63,831      | 42,819      | 27,474      | 13,044      | 2,164       | 82          | 2        |
| 3d child .....                        | 103,413   | 4              | 5,579       | 9        | 102      | 473      | 1,557    | 3,438       | 35,068      | 30,190      | 19,956      | 10,534      | 2,008       | 73          | 1        |
| 4th child .....                       | 47,666    | 1              | 870         | 1        | 10       | 37       | 198      | 624         | 13,581      | 15,308      | 10,446      | 6,145       | 1,266       | 49          | -        |
| 5th child .....                       | 21,029    | -              | 108         | -        | -        | 2        | 25       | 81          | 4,425       | 7,127       | 5,135       | 3,344       | 844         | 46          | -        |
| 6th child .....                       | 9,630     | -              | 17          | -        | 1        | 2        | 4        | 10          | 1,236       | 3,222       | 2,869       | 1,773       | 489         | 24          | -        |
| 7th child .....                       | 4,595     | -              | 3           | -        | -        | -        | 1        | 2           | 295         | 1,326       | 1,515       | 1,083       | 354         | 18          | 1        |
| 8th child and over .....              | 4,717     | -              | 2           | -        | -        | -        | 1        | 1           | 84          | 898         | 1,609       | 1,531       | 553         | 40          | -        |
| Not stated .....                      | 2,254     | 18             | 429         | 23       | 38       | 98       | 117      | 153         | 657         | 538         | 358         | 203         | 48          | 2           | 1        |

- Quantity zero.

<sup>1</sup> Includes races other than white and black.

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.

**Table 8. Fertility rates and birth rates by age of mother, live-birth order, Hispanic origin of mother, and by race for mothers of non-Hispanic origin: United States, 1999**

[ Rates are live births per 1,000 women in specified age and racial group. Live-birth order refers to number of children born alive to mother. Figures for live-birth order not stated are distributed]

| Live-birth order and origin of mother | 15-44 years <sup>1</sup> | Age of mother |             |             |             |             |             |             |             |             |                          |
|---------------------------------------|--------------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------|
|                                       |                          | 10-14 years   | 15-19 years |             |             | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-49 years <sup>2</sup> |
|                                       |                          |               | Total       | 15-17 years | 18-19 years |             |             |             |             |             |                          |
| <b>Hispanic</b>                       |                          |               |             |             |             |             |             |             |             |             |                          |
| Total .....                           | 102.0                    | 2.0           | 93.4        | 61.3        | 139.4       | 178.7       | 163.1       | 102.2       | 46.3        | 10.7        | 0.6                      |
| 1st child .....                       | 38.0                     | 2.0           | 71.2        | 53.4        | 96.7        | 76.9        | 42.9        | 18.8        | 6.7         | 1.3         | 0.1                      |
| 2d child .....                        | 31.3                     | 0.0           | 18.5        | 7.2         | 34.8        | 64.3        | 56.7        | 30.1        | 11.3        | 2.0         | 0.1                      |
| 3d child .....                        | 19.0                     | *             | 3.2         | 0.6         | 7.0         | 27.3        | 39.2        | 28.0        | 12.0        | 2.3         | 0.1                      |
| 4th child .....                       | 8.3                      | *             | 0.4         | 0.0         | 0.9         | 7.8         | 16.2        | 14.7        | 7.9         | 1.9         | 0.1                      |
| 5th child .....                       | 3.2                      | *             | 0.1         | *           | 0.1         | 1.9         | 5.4         | 6.2         | 4.2         | 1.2         | 0.1                      |
| 6th and 7th child .....               | 1.8                      | *             | *           | *           | *           | 0.5         | 2.3         | 3.7         | 3.2         | 1.3         | 0.1                      |
| 8th child and over .....              | 0.5                      | *             | *           | *           | *           | 0.0         | 0.3         | 0.8         | 1.1         | 0.6         | 0.1                      |
| Mexican .....                         | 111.6                    | 2.3           | 101.5       | 65.4        | 156.8       | 194.2       | 169.8       | 107.9       | 49.1        | 10.8        | 0.7                      |
| 1st child .....                       | 40.5                     | 2.2           | 76.8        | 56.8        | 107.5       | 81.5        | 40.9        | 16.3        | 5.8         | 1.1         | 0.1                      |
| 2d child .....                        | 33.5                     | 0.0           | 20.6        | 7.8         | 40.0        | 70.8        | 58.4        | 28.7        | 9.7         | 1.6         | 0.1                      |
| 3d child .....                        | 21.3                     | *             | 3.6         | 0.7         | 8.1         | 30.4        | 43.1        | 31.6        | 12.8        | 2.1         | 0.1                      |
| 4th child .....                       | 9.6                      | *             | 0.4         | 0.0         | 1.0         | 8.7         | 18.2        | 18.0        | 9.6         | 2.1         | 0.1                      |
| 5th child .....                       | 3.8                      | *             | 0.1         | *           | 0.1         | 2.1         | 6.1         | 7.8         | 5.5         | 1.5         | 0.1                      |
| 6th and 7th child .....               | 2.2                      | *             | *           | *           | *           | 0.5         | 2.6         | 4.6         | 4.3         | 1.6         | 0.1                      |
| 8th child and over .....              | 0.6                      | *             | *           | *           | *           | 0.0         | 0.4         | 1.0         | 1.4         | 0.9         | 0.1                      |
| Puerto Rican .....                    | 77.7                     | 1.7           | 79.7        | 53.2        | 117.1       | 166.0       | 127.9       | 64.3        | 28.4        | 7.3         | 0.3                      |
| 1st child .....                       | 30.7                     | 1.7           | 60.3        | 46.4        | 79.9        | 63.3        | 34.1        | 14.5        | 5.1         | 1.4         | *                        |
| 2d child .....                        | 24.4                     | *             | 16.1        | 6.1         | 30.1        | 60.9        | 43.2        | 21.7        | 8.8         | 1.6         | *                        |
| 3d child .....                        | 13.3                     | *             | 2.8         | 0.6         | 6.0         | 29.0        | 28.9        | 14.6        | 7.3         | 1.8         | *                        |
| 4th child .....                       | 5.5                      | *             | 0.5         | *           | 1.0         | 9.7         | 13.2        | 7.3         | 3.3         | 1.1         | *                        |
| 5th child .....                       | 2.1                      | *             | *           | *           | *           | 2.4         | 5.1         | 3.2         | 1.9         | 0.5         | *                        |
| 6th and 7th child .....               | 1.3                      | *             | *           | *           | *           | 0.6         | 2.9         | 2.4         | 1.4         | 0.6         | *                        |
| 8th child and over .....              | 0.3                      | *             | *           | *           | *           | *           | 0.5         | 0.6         | 0.6         | 0.2         | *                        |
| Cuban .....                           | 51.2                     | 0.7           | 27.1        | 15.7        | 46.2        | 71.8        | 92.8        | 72.9        | 39.6        | 7.4         | *                        |
| 1st child .....                       | 22.4                     | 0.7           | 22.3        | 14.2        | 35.8        | 42.2        | 43.8        | 23.7        | 9.3         | 1.9         | *                        |
| 2d child .....                        | 18.9                     | *             | 4.1         | 1.5         | 8.6         | 22.8        | 34.7        | 31.9        | 16.4        | 2.6         | *                        |
| 3d child .....                        | 7.2                      | *             | 0.7         | *           | 1.7         | 5.7         | 10.9        | 12.9        | 9.1         | 1.8         | *                        |
| 4th child .....                       | 1.8                      | *             | *           | *           | *           | 0.8         | 2.4         | 3.2         | 3.0         | 0.7         | *                        |
| 5th child .....                       | 0.5                      | *             | *           | *           | *           | *           | 0.7         | 0.9         | 0.9         | *           | *                        |
| 6th and 7th child .....               | 0.3                      | *             | *           | *           | *           | *           | *           | *           | 0.7         | *           | *                        |
| 8th child and over .....              | *                        | *             | *           | *           | *           | *           | *           | *           | *           | *           | *                        |
| Other Hispanic <sup>3</sup> .....     | 92.6                     | 1.6           | 81.3        | 57.1        | 108.2       | 148.0       | 166.2       | 108.8       | 48.3        | 12.4        | 0.7                      |
| 1st child .....                       | 36.3                     | 1.6           | 64.1        | 50.6        | 79.2        | 71.8        | 53.6        | 26.6        | 8.9         | 1.9         | 0.1                      |
| 2d child .....                        | 29.6                     | *             | 14.4        | 6.0         | 23.8        | 50.2        | 60.0        | 37.5        | 14.9        | 3.3         | 0.2                      |
| 3d child .....                        | 16.5                     | *             | 2.4         | 0.5         | 4.6         | 19.6        | 34.3        | 26.8        | 12.5        | 3.0         | 0.2                      |
| 4th child .....                       | 6.4                      | *             | 0.3         | *           | 0.5         | 5.1         | 12.7        | 10.9        | 6.6         | 1.9         | *                        |
| 5th child .....                       | 2.3                      | *             | *           | *           | *           | 1.1         | 3.9         | 4.2         | 2.9         | 1.1         | *                        |
| 6th and 7th child .....               | 1.3                      | *             | *           | *           | *           | 0.3         | 1.5         | 2.3         | 2.0         | 0.9         | 0.1                      |
| 8th child and over .....              | 0.3                      | *             | *           | *           | *           | *           | 0.2         | 0.5         | 0.6         | 0.3         | *                        |

See footnotes at end of table.

**Table 8. Fertility rates and birth rates by age of mother, live-birth order, Hispanic origin of mother, and by race for mothers of non-Hispanic origin: United States, 1999 --Con.**

[ Rates are live births per 1,000 women in specified age and racial group. Live-birth order refers to number of children born alive to mother. Figures for live-birth order not stated are distributed]

| Live-birth order and origin of mother | 15-44 years <sup>1</sup> | Age of mother |             |             |             |             |             |             |             |             |                          |
|---------------------------------------|--------------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------|
|                                       |                          | 10-14 years   | 15-19 years |             |             | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-49 years <sup>2</sup> |
|                                       |                          |               | Total       | 15-17 years | 18-19 years |             |             |             |             |             |                          |
| Non-Hispanic <sup>4</sup>             |                          |               |             |             |             |             |             |             |             |             |                          |
| Total <sup>5</sup> .....              | 60.7                     | 0.8           | 42.5        | 23.5        | 70.6        | 99.4        | 110.6       | 87.8        | 37.3        | 7.1         | 0.4                      |
| 1st child .....                       | 24.9                     | 0.8           | 33.7        | 21.1        | 52.2        | 46.5        | 43.1        | 26.6        | 8.7         | 1.6         | 0.1                      |
| 2d child .....                        | 20.1                     | 0.0           | 7.4         | 2.2         | 15.1        | 34.1        | 38.5        | 32.8        | 12.7        | 2.1         | 0.1                      |
| 3d child .....                        | 9.8                      | *             | 1.3         | 0.2         | 2.8         | 13.6        | 18.6        | 17.4        | 8.6         | 1.5         | 0.1                      |
| 4th child .....                       | 3.6                      | *             | 0.2         | 0.0         | 0.4         | 3.9         | 6.7         | 6.6         | 4.0         | 0.8         | 0.0                      |
| 5th child .....                       | 1.3                      | *             | 0.0         | *           | 0.0         | 1.0         | 2.3         | 2.4         | 1.6         | 0.4         | 0.0                      |
| 6th and 7th child .....               | 0.8                      | *             | 0.0         | *           | 0.0         | 0.3         | 1.2         | 1.5         | 1.2         | 0.4         | 0.0                      |
| 8th child and over .....              | 0.3                      | *             | *           | *           | *           | 0.0         | 0.2         | 0.4         | 0.6         | 0.3         | 0.0                      |
| White .....                           | 57.8                     | 0.3           | 34.0        | 17.1        | 58.9        | 89.9        | 111.0       | 90.3        | 37.3        | 6.8         | 0.4                      |
| 1st child .....                       | 24.0                     | 0.3           | 28.0        | 15.8        | 46.0        | 44.9        | 45.3        | 27.9        | 8.9         | 1.6         | 0.1                      |
| 2d child .....                        | 19.6                     | 0.0           | 5.3         | 1.2         | 11.2        | 31.2        | 39.7        | 34.6        | 12.8        | 2.1         | 0.1                      |
| 3d child .....                        | 9.2                      | *             | 0.7         | 0.1         | 1.6         | 10.8        | 17.9        | 18.0        | 8.7         | 1.4         | 0.1                      |
| 4th child .....                       | 3.2                      | *             | 0.1         | *           | 0.2         | 2.5         | 5.7         | 6.4         | 3.9         | 0.8         | 0.0                      |
| 5th child .....                       | 1.0                      | *             | 0.0         | *           | 0.0         | 0.5         | 1.6         | 2.0         | 1.5         | 0.4         | 0.0                      |
| 6th and 7th child .....               | 0.6                      | *             | *           | *           | *           | 0.1         | 0.6         | 1.2         | 1.0         | 0.3         | 0.0                      |
| 8th child and over .....              | 0.2                      | *             | *           | *           | *           | 0.0         | 0.1         | 0.3         | 0.4         | 0.3         | 0.0                      |
| Black .....                           | 72.2                     | 2.7           | 83.7        | 53.7        | 126.8       | 146.3       | 104.9       | 66.3        | 31.5        | 6.7         | 0.4                      |
| 1st child .....                       | 27.2                     | 2.7           | 61.4        | 46.1        | 83.3        | 53.9        | 26.1        | 14.4        | 5.6         | 1.1         | 0.1                      |
| 2d child .....                        | 21.4                     | 0.1           | 17.6        | 6.8         | 33.2        | 49.8        | 33.4        | 20.7        | 9.0         | 1.6         | 0.1                      |
| 3d child .....                        | 12.7                     | *             | 4.0         | 0.7         | 8.6         | 27.3        | 23.6        | 15.0        | 7.3         | 1.5         | 0.1                      |
| 4th child .....                       | 5.9                      | *             | 0.6         | 0.1         | 1.4         | 10.6        | 11.9        | 7.9         | 4.3         | 0.9         | 0.0                      |
| 5th child .....                       | 2.6                      | *             | 0.1         | *           | 0.2         | 3.5         | 5.6         | 3.9         | 2.3         | 0.6         | 0.0                      |
| 6th and 7th child .....               | 1.8                      | *             | 0.0         | *           | *           | 1.2         | 3.6         | 3.3         | 2.0         | 0.6         | 0.0                      |
| 8th child and over .....              | 0.6                      | *             | *           | *           | *           | 0.1         | 0.7         | 1.2         | 1.1         | 0.4         | 0.0                      |

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.  
0.0 Quantity more than zero but less than 0.05.<sup>1</sup> Fertility rates computed by relating total births, regardless of age of mother, to women aged 15-44 years.<sup>2</sup> Birth rates computed by relating births to women aged 45-54 years to women aged 45-49 years.<sup>3</sup> Includes Central and South American and other and unknown Hispanic.<sup>4</sup> Includes origin not stated.<sup>5</sup> Includes races other than white and black.

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin;

**Table 9. Total fertility rates, fertility rates, and birth rates by age and Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, 1989-99**

[Fertility rates are live births per 1,000 women aged 15-44 years in specified racial group and birth rates are live births per 1,000 women in specified age and racial group. Population enumerated as of April 1 for 1990, and estimated as of July 1 for all other years. Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5]

| Year and origin/race of mother | Total fertility rate | Fertility rate <sup>†</sup> | Age of mother |             |             |             |             |             |             |             |             |                          |
|--------------------------------|----------------------|-----------------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------|
|                                |                      |                             | 10-14 years   | 15-19 years |             |             | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-49 years <sup>2</sup> |
|                                |                      |                             |               | Total       | 15-17 years | 18-19 years |             |             |             |             |             |                          |
| <b>All origins</b>             |                      |                             |               |             |             |             |             |             |             |             |             |                          |
| 1999                           | 2,075.0              | 65.9                        | 0.9           | 49.6        | 28.7        | 80.3        | 111.0       | 117.8       | 89.6        | 38.3        | 7.4         | 0.4                      |
| 1998                           | 2,058.5              | 65.6                        | 1.0           | 51.1        | 30.4        | 82.0        | 111.2       | 115.9       | 87.4        | 37.4        | 7.3         | 0.4                      |
| 1997                           | 2,032.5              | 65.0                        | 1.1           | 52.3        | 32.1        | 83.6        | 110.4       | 113.8       | 85.3        | 36.1        | 7.1         | 0.4                      |
| 1996                           | 2,027.0              | 65.3                        | 1.2           | 54.4        | 33.8        | 86.0        | 110.4       | 113.1       | 83.9        | 35.3        | 6.8         | 0.3                      |
| 1995                           | 2,019.0              | 65.6                        | 1.3           | 56.8        | 36.0        | 89.1        | 109.8       | 112.2       | 82.5        | 34.3        | 6.6         | 0.3                      |
| 1994                           | 2,036.0              | 66.7                        | 1.4           | 58.9        | 37.6        | 91.5        | 111.1       | 113.9       | 81.5        | 33.7        | 6.4         | 0.3                      |
| 1993                           | 2,046.0              | 67.6                        | 1.4           | 59.6        | 37.8        | 92.1        | 112.6       | 115.5       | 80.8        | 32.9        | 6.1         | 0.3                      |
| 1992                           | 2,065.0              | 68.9                        | 1.4           | 60.7        | 37.8        | 94.5        | 114.6       | 117.4       | 80.2        | 32.5        | 5.9         | 0.3                      |
| 1991                           | 2,073.0              | 69.6                        | 1.4           | 62.1        | 38.7        | 94.4        | 115.7       | 118.2       | 79.5        | 32.0        | 5.5         | 0.2                      |
| 1990                           | 2,081.0              | 70.9                        | 1.4           | 59.9        | 37.5        | 88.6        | 116.5       | 120.2       | 80.8        | 31.7        | 5.5         | 0.2                      |
| 1989                           | 2,014.0              | 69.2                        | 1.4           | 57.3        | 36.4        | 84.2        | 113.8       | 117.6       | 77.4        | 29.9        | 5.2         | 0.2                      |
| <b>Hispanic</b>                |                      |                             |               |             |             |             |             |             |             |             |             |                          |
| <b>Total</b>                   |                      |                             |               |             |             |             |             |             |             |             |             |                          |
| 1999                           | 2,985.0              | 102.0                       | 2.0           | 93.4        | 61.3        | 139.4       | 178.7       | 163.1       | 102.2       | 46.3        | 10.7        | 0.6                      |
| 1998                           | 2,947.5              | 101.1                       | 2.1           | 93.6        | 62.3        | 140.1       | 178.4       | 160.2       | 98.9        | 44.9        | 10.8        | 0.6                      |
| 1997                           | 2,999.5              | 102.8                       | 2.3           | 97.4        | 66.3        | 144.3       | 184.2       | 161.7       | 97.9        | 45.0        | 10.8        | 0.6                      |
| 1996                           | 3,047.5              | 104.9                       | 2.6           | 101.8       | 69.0        | 151.1       | 189.5       | 161.0       | 98.1        | 45.1        | 10.8        | 0.6                      |
| 1995                           | 3,019.5              | 105.0                       | 2.7           | 106.7       | 72.9        | 157.9       | 188.5       | 153.8       | 95.9        | 44.9        | 10.8        | 0.6                      |
| 1994                           | 3,014.0              | 105.6                       | 2.7           | 107.7       | 74.0        | 158.0       | 188.2       | 153.2       | 95.4        | 44.3        | 10.7        | 0.6                      |
| 1993                           | 3,020.5              | 106.9                       | 2.7           | 106.8       | 71.7        | 159.1       | 188.3       | 154.0       | 96.4        | 44.7        | 10.6        | 0.6                      |
| 1992 <sup>3</sup>              | 3,043.0              | 108.6                       | 2.6           | 107.1       | 71.4        | 159.7       | 190.6       | 154.4       | 96.8        | 45.6        | 10.9        | 0.6                      |
| 1991 <sup>3</sup>              | 3,002.5              | 108.1                       | 2.4           | 106.7       | 70.6        | 158.5       | 186.3       | 152.8       | 96.1        | 44.9        | 10.7        | 0.6                      |
| 1990 <sup>4</sup>              | 2,959.5              | 107.7                       | 2.4           | 100.3       | 65.9        | 147.7       | 181.0       | 153.0       | 98.3        | 45.3        | 10.9        | 0.7                      |
| 1989 <sup>5</sup>              | 2,903.5              | 104.9                       | 2.3           | 100.8       | ---         | ---         | 184.4       | 146.6       | 92.1        | 43.5        | 10.4        | 0.6                      |
| <b>Mexican</b>                 |                      |                             |               |             |             |             |             |             |             |             |             |                          |
| 1999                           | 3,181.5              | 111.6                       | 2.3           | 101.5       | 65.4        | 156.8       | 194.2       | 169.8       | 107.9       | 49.1        | 10.8        | 0.7                      |
| 1998                           | 3,198.0              | 112.1                       | 2.2           | 102.7       | 67.0        | 159.1       | 197.6       | 173.5       | 103.7       | 48.4        | 10.9        | 0.6                      |
| 1997                           | 3,307.5              | 116.6                       | 2.5           | 112.4       | 77.3        | 165.1       | 204.9       | 176.3       | 104.2       | 49.0        | 11.6        | 0.6                      |
| 1996                           | 3,353.5              | 119.3                       | 2.8           | 120.7       | 83.4        | 174.3       | 206.3       | 176.9       | 103.7       | 47.6        | 12.0        | 0.7                      |
| 1995                           | 3,273.5              | 117.0                       | 2.8           | 124.6       | 84.4        | 185.3       | 208.9       | 160.5       | 98.5        | 46.8        | 11.9        | 0.7                      |
| 1994                           | 3,211.5              | 115.4                       | 2.8           | 116.2       | 78.0        | 175.0       | 202.6       | 165.2       | 96.9        | 46.2        | 11.7        | 0.7                      |
| 1993                           | 3,174.0              | 114.8                       | 2.6           | 108.7       | 71.6        | 164.9       | 196.6       | 168.2       | 100.5       | 46.1        | 11.3        | 0.8                      |
| 1992 <sup>3</sup>              | 3,196.5              | 116.0                       | 2.5           | 108.8       | ---         | ---         | 202.3       | 166.3       | 99.1        | 47.7        | 11.8        | 0.8                      |
| 1991 <sup>3</sup>              | 3,317.5              | 121.6                       | 2.6           | 117.3       | 75.9        | 178.4       | 209.9       | 168.2       | 103.3       | 49.1        | 12.3        | 0.8                      |
| 1990 <sup>4</sup>              | 3,214.0              | 118.9                       | 2.5           | 108.0       | 69.7        | 162.2       | 200.3       | 165.3       | 104.4       | 49.1        | 12.4        | 0.8                      |
| 1989 <sup>5</sup>              | 2,916.5              | 106.6                       | 2.0           | 94.5        | ---         | ---         | 184.3       | 153.7       | 96.1        | 41.0        | 11.1        | 0.6                      |
| <b>Puerto Rican</b>            |                      |                             |               |             |             |             |             |             |             |             |             |                          |
| 1999                           | 2,378.0              | 77.7                        | 1.7           | 79.7        | 53.2        | 117.1       | 166.0       | 127.9       | 64.3        | 28.4        | 7.3         | 0.3                      |
| 1998                           | 2,268.0              | 75.5                        | 1.9           | 81.2        | 55.1        | 120.7       | 164.2       | 104.4       | 67.6        | 26.7        | 7.2         | 0.4                      |
| 1997                           | 2,164.0              | 71.7                        | 1.8           | 74.9        | 48.9        | 120.0       | 154.0       | 109.3       | 59.1        | 27.0        | 6.2         | 0.5                      |
| 1996                           | 2,163.0              | 71.3                        | 2.1           | 82.3        | 52.2        | 143.2       | 148.8       | 109.4       | 58.3        | 25.9        | 5.6         | *                        |
| 1995                           | 2,245.5              | 75.7                        | 3.0           | 89.0        | 61.2        | 139.2       | 151.5       | 107.2       | 64.8        | 27.7        | 5.6         | 0.3                      |
| 1994                           | 2,490.0              | 81.9                        | 3.2           | 106.0       | 72.8        | 168.4       | 181.0       | 111.7       | 62.3        | 28.0        | 5.6         | 0.2                      |
| 1993                           | 2,523.5              | 82.5                        | 3.1           | 110.0       | 73.4        | 181.0       | 193.1       | 108.4       | 56.3        | 27.1        | 6.2         | 0.5                      |
| 1992 <sup>3</sup>              | 2,644.5              | 89.9                        | 3.5           | 110.4       | ---         | ---         | 204.9       | 106.6       | 66.7        | 30.0        | 6.5         | 0.3                      |
| 1991 <sup>3</sup>              | 2,276.0              | 80.9                        | 2.5           | 102.7       | 75.2        | 143.0       | 149.4       | 107.5       | 61.4        | 25.7        | 5.7         | 0.3                      |
| 1990 <sup>4</sup>              | 2,301.0              | 82.9                        | 2.9           | 101.6       | 71.6        | 141.6       | 150.1       | 109.9       | 62.8        | 26.2        | 6.2         | 0.5                      |
| 1989 <sup>5</sup>              | 2,421.0              | 86.6                        | 3.8           | 112.7       | ---         | ---         | 171.0       | 98.0        | 65.2        | 26.9        | 6.3         | 0.3                      |
| <b>Cuban</b>                   |                      |                             |               |             |             |             |             |             |             |             |             |                          |
| 1999                           | 1,563.0              | 51.2                        | 0.7           | 27.1        | 15.7        | 46.2        | 71.8        | 92.8        | 72.9        | 39.6        | 7.4         | *                        |
| 1998                           | 1,560.0              | 50.1                        | 0.8           | 24.2        | 15.6        | 38.8        | 85.6        | 95.2        | 64.5        | 34.2        | 7.1         | *                        |
| 1997                           | 1,814.5              | 57.4                        | 1.0           | 38.3        | 25.3        | 53.4        | 82.7        | 123.5       | 75.7        | 35.1        | 6.3         | 0.3                      |
| 1996                           | 1,774.5              | 58.9                        | 0.9           | 34.0        | 19.8        | 54.5        | 82.5        | 110.7       | 85.9        | 34.3        | 6.4         | *                        |
| 1995                           | 1,705.5              | 55.1                        | *             | 29.2        | 16.6        | 51.2        | 77.0        | 110.6       | 88.0        | 29.8        | 6.0         | *                        |
| 1994                           | 1,680.5              | 55.9                        | 0.6           | 40.2        | 23.1        | 77.4        | 72.5        | 98.4        | 87.6        | 31.3        | 5.5         | *                        |
| 1993                           | 1,632.5              | 55.5                        | *             | 33.0        | 20.4        | 49.7        | 68.9        | 102.0       | 86.9        | 31.0        | 4.7         | *                        |
| 1992 <sup>3</sup>              | 1,485.5              | 50.3                        | 1.0           | 26.3        | ---         | ---         | 51.6        | 98.4        | 86.2        | 28.9        | 4.7         | 0.0                      |
| 1991 <sup>3</sup>              | 1,385.5              | 49.1                        | *             | 27.7        | 17.5        | 41.3        | 61.2        | 88.8        | 68.2        | 26.7        | 4.0         | *                        |
| 1990 <sup>4</sup>              | 1,459.5              | 52.6                        | *             | 30.3        | 18.2        | 46.1        | 64.6        | 95.4        | 67.6        | 28.2        | 4.9         | *                        |
| 1989 <sup>5</sup>              | 1,479.0              | 49.8                        | 0.5           | 25.1        | ---         | ---         | 64.2        | 101.8       | 73.7        | 27.2        | 3.0         | 0.3                      |

See footnotes at end of table.

**Table 9. Total fertility rates, fertility rates, and birth rates by age and Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, 1989-99 --Con.**

[Fertility rates are live births per 1,000 women aged 15-44 years in specified racial group and birth rates are live births per 1,000 women in specified age and racial group. Population enumerated as of April 1 for 1990, and estimated as of July 1 for all other years. Total fertility rates are sums of birth rates for 5-year age groups multiplied by 5]

| Year and origin/race of mother     | Total fertility rate | Fertility rate <sup>1</sup> | Age of mother |             |             |             |             |             |             |             |             |                          |
|------------------------------------|----------------------|-----------------------------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------------------|
|                                    |                      |                             | 10-14 years   | 15-19 years |             |             | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-49 years <sup>2</sup> |
|                                    |                      |                             |               | Total       | 15-17 years | 18-19 years |             |             |             |             |             |                          |
| <b>Other Hispanic <sup>6</sup></b> |                      |                             |               |             |             |             |             |             |             |             |             |                          |
| 1999 .....                         | 2,836.5              | 92.6                        | 1.6           | 81.3        | 57.1        | 108.2       | 148.0       | 166.2       | 108.8       | 48.3        | 12.4        | 0.7                      |
| 1998 .....                         | 2,719.0              | 90.2                        | 1.9           | 80.0        | 56.7        | 106.9       | 137.4       | 157.2       | 106.9       | 46.9        | 12.9        | 0.6                      |
| 1997 .....                         | 2,653.5              | 87.6                        | 2.0           | 72.1        | 48.3        | 106.8       | 146.4       | 147.9       | 104.4       | 45.4        | 11.8        | 0.7                      |
| 1996 .....                         | 2,762.0              | 90.2                        | 2.4           | 69.8        | 46.6        | 103.1       | 166.5       | 146.3       | 105.3       | 50.4        | 11.0        | 0.7                      |
| 1995 .....                         | 2,834.0              | 94.5                        | 2.4           | 77.5        | 54.8        | 107.8       | 158.3       | 161.8       | 103.7       | 50.9        | 11.6        | 0.6                      |
| 1994 .....                         | 2,855.5              | 97.7                        | 2.6           | 87.9        | 66.4        | 112.4       | 162.0       | 147.4       | 109.3       | 49.4        | 11.9        | 0.6                      |
| 1993 .....                         | 3,038.5              | 105.0                       | 2.7           | 106.9       | 78.2        | 141.7       | 175.2       | 147.1       | 110.4       | 52.4        | 12.5        | 0.5                      |
| 1992 <sup>3</sup> .....            | 3,076.0              | 107.0                       | 2.5           | 112.1       | ---         | ---         | 172.9       | 157.8       | 106.6       | 50.3        | 12.5        | 0.5                      |
| 1991 <sup>3</sup> .....            | 2,817.0              | 99.3                        | 2.1           | 88.1        | 58.9        | 128.8       | 161.1       | 150.6       | 101.5       | 48.2        | 11.2        | 0.6                      |
| 1990 <sup>4</sup> .....            | 2,877.0              | 102.7                       | 2.1           | 86.0        | 57.2        | 123.8       | 162.9       | 155.8       | 106.9       | 49.4        | 11.6        | 0.7                      |
| 1989 <sup>5</sup> .....            | 2,683.0              | 95.8                        | 1.7           | 66.4        | ---         | ---         | 159.2       | 150.4       | 85.1        | 60.3        | 12.7        | 0.8                      |
| <b>Non-Hispanic <sup>7</sup></b>   |                      |                             |               |             |             |             |             |             |             |             |             |                          |
| <b>Total <sup>8</sup></b>          |                      |                             |               |             |             |             |             |             |             |             |             |                          |
| 1999 .....                         | 1,929.5              | 60.7                        | 0.8           | 42.5        | 23.5        | 70.6        | 99.4        | 110.6       | 87.8        | 37.3        | 7.1         | 0.4                      |
| 1998 .....                         | 1,919.5              | 60.7                        | 0.8           | 44.3        | 25.4        | 72.8        | 99.9        | 109.3       | 85.7        | 36.5        | 7.0         | 0.4                      |
| 1997 .....                         | 1,888.5              | 60.1                        | 0.9           | 45.5        | 27.0        | 74.3        | 98.6        | 107.0       | 83.5        | 35.1        | 6.7         | 0.4                      |
| 1996 .....                         | 1,881.0              | 60.3                        | 1.0           | 47.3        | 28.7        | 76.2        | 98.4        | 106.5       | 82.0        | 34.2        | 6.5         | 0.3                      |
| 1995 .....                         | 1,881.0              | 60.8                        | 1.1           | 49.6        | 30.7        | 79.0        | 98.5        | 106.4       | 80.9        | 33.2        | 6.2         | 0.3                      |
| 1994 .....                         | 1,905.0              | 62.0                        | 1.2           | 52.0        | 32.5        | 81.8        | 100.4       | 108.6       | 79.9        | 32.6        | 6.0         | 0.3                      |
| 1993 .....                         | 1,918.5              | 63.1                        | 1.2           | 52.9        | 33.1        | 82.6        | 102.5       | 110.4       | 79.0        | 31.7        | 5.7         | 0.3                      |
| 1992 <sup>3</sup> .....            | 1,941.0              | 64.4                        | 1.2           | 54.4        | 33.2        | 85.5        | 104.7       | 112.7       | 78.4        | 31.2        | 5.4         | 0.2                      |
| 1991 <sup>3</sup> .....            | 1,959.5              | 65.4                        | 1.3           | 56.1        | 34.4        | 86.1        | 106.6       | 114.0       | 77.8        | 30.8        | 5.1         | 0.2                      |
| 1990 <sup>4</sup> .....            | 1,979.5              | 67.1                        | 1.3           | 54.8        | 33.8        | 81.4        | 108.1       | 116.5       | 79.2        | 30.7        | 5.1         | 0.2                      |
| 1989 <sup>5</sup> .....            | 1,921.0              | 65.7                        | 1.3           | 53.4        | ---         | ---         | 107.8       | 113.4       | 74.7        | 28.6        | 4.8         | 0.2                      |
| <b>White</b>                       |                      |                             |               |             |             |             |             |             |             |             |             |                          |
| 1999 .....                         | 1,850.0              | 57.8                        | 0.3           | 34.0        | 17.1        | 58.9        | 89.9        | 111.0       | 90.3        | 37.3        | 6.8         | 0.4                      |
| 1998 .....                         | 1,837.0              | 57.7                        | 0.3           | 35.2        | 18.4        | 60.6        | 90.7        | 109.7       | 88.0        | 36.4        | 6.7         | 0.4                      |
| 1997 .....                         | 1,801.0              | 57.0                        | 0.4           | 36.0        | 19.4        | 61.9        | 89.8        | 107.2       | 85.2        | 34.9        | 6.4         | 0.3                      |
| 1996 .....                         | 1,795.5              | 57.3                        | 0.4           | 37.6        | 20.6        | 63.7        | 90.1        | 107.0       | 83.5        | 34.0        | 6.2         | 0.3                      |
| 1995 .....                         | 1,786.5              | 57.6                        | 0.4           | 39.3        | 22.0        | 66.1        | 90.0        | 106.5       | 82.0        | 32.9        | 5.9         | 0.3                      |
| 1994 .....                         | 1,792.0              | 58.3                        | 0.5           | 40.4        | 22.8        | 67.4        | 90.9        | 107.9       | 80.7        | 32.1        | 5.7         | 0.2                      |
| 1993 .....                         | 1,792.5              | 59.0                        | 0.5           | 40.7        | 22.7        | 67.7        | 92.1        | 109.2       | 79.4        | 31.1        | 5.3         | 0.2                      |
| 1992 <sup>3</sup> .....            | 1,810.5              | 60.2                        | 0.5           | 41.7        | 22.7        | 69.8        | 93.9        | 111.5       | 78.7        | 30.5        | 5.1         | 0.2                      |
| 1991 <sup>3</sup> .....            | 1,826.5              | 61.0                        | 0.5           | 43.4        | 23.6        | 70.5        | 95.7        | 112.7       | 77.9        | 30.2        | 4.7         | 0.2                      |
| 1990 <sup>4</sup> .....            | 1,850.5              | 62.8                        | 0.5           | 42.5        | 23.2        | 66.6        | 97.5        | 115.3       | 79.4        | 30.0        | 4.7         | 0.2                      |
| 1989 <sup>5</sup> .....            | 1,770.0              | 60.5                        | 0.4           | 39.9        | ---         | ---         | 94.7        | 111.7       | 75.0        | 27.8        | 4.3         | 0.2                      |
| <b>Black</b>                       |                      |                             |               |             |             |             |             |             |             |             |             |                          |
| 1999 .....                         | 2,212.5              | 72.2                        | 2.7           | 83.7        | 53.7        | 126.8       | 146.3       | 104.9       | 66.3        | 31.5        | 6.7         | 0.4                      |
| 1998 .....                         | 2,235.5              | 73.0                        | 3.0           | 88.2        | 58.8        | 130.9       | 146.4       | 104.6       | 66.6        | 31.2        | 6.8         | 0.3                      |
| 1997 .....                         | 2,210.5              | 72.4                        | 3.4           | 90.8        | 62.6        | 134.0       | 143.0       | 101.9       | 65.8        | 30.3        | 6.6         | 0.3                      |
| 1996 .....                         | 2,204.0              | 72.5                        | 3.8           | 94.2        | 66.6        | 136.6       | 140.9       | 100.8       | 64.9        | 29.7        | 6.2         | 0.3                      |
| 1995 .....                         | 2,245.0              | 74.5                        | 4.3           | 99.3        | 72.1        | 141.9       | 141.7       | 102.0       | 65.9        | 29.4        | 6.1         | 0.3                      |
| 1994 .....                         | 2,365.0              | 79.0                        | 4.7           | 107.7       | 78.6        | 152.9       | 150.3       | 107.0       | 67.5        | 29.5        | 6.0         | 0.3                      |
| 1993 .....                         | 2,454.5              | 82.7                        | 4.7           | 112.2       | 82.5        | 156.7       | 157.4       | 111.5       | 69.0        | 29.8        | 6.0         | 0.3                      |
| 1992 <sup>3</sup> .....            | 2,514.0              | 85.5                        | 4.8           | 116.0       | 83.9        | 162.9       | 163.0       | 114.6       | 69.1        | 29.4        | 5.7         | 0.2                      |
| 1991 <sup>3</sup> .....            | 2,551.0              | 87.6                        | 4.9           | 118.9       | 86.7        | 163.1       | 166.1       | 116.3       | 69.3        | 28.9        | 5.6         | 0.2                      |
| 1990 <sup>4</sup> .....            | 2,547.5              | 89.0                        | 5.0           | 116.2       | 84.9        | 157.5       | 165.1       | 118.4       | 70.2        | 28.7        | 5.6         | 0.3                      |
| 1989 <sup>5</sup> .....            | 2,424.0              | 84.8                        | 5.2           | 111.9       | ---         | ---         | 156.3       | 113.8       | 65.7        | 26.3        | 5.3         | 0.3                      |

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.

--- Data not available.

0.0 Quantity more than zero but less than 0.05.

<sup>1</sup> Fertility rates computed by relating total births, regardless of age of mother, to women 15-44 years.

<sup>2</sup> Beginning 1997, rates computed by relating births to women aged 45-54 years to women aged 45-49 years.

<sup>3</sup> Excludes data for New Hampshire, which did not report Hispanic origin.

<sup>4</sup> Excludes data for New Hampshire and Oklahoma, which did not report Hispanic origin.

<sup>5</sup> Excludes data for Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin.

<sup>6</sup> Includes Central and South American and other and unknown Hispanic.

<sup>7</sup> Includes origin not stated.

<sup>8</sup> Includes races other than white and black.

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.

**Table 10. Number of births, birth rates, fertility rates, total fertility rates, and birth rates for teenagers 15-19 years by age of mother: United States, each State and territory, 1999**

[By place of residence. Birth rates are live births per 1,000 estimated population in each area; fertility rates are live births per 1,000 women aged 15-44 years estimated in each area; total fertility rates are sums of birth rates for 5-year age groups multiplied by 5; birth rates by age are live births per 1,000 women in specified age group estimated in each area]

| State                            | Number of births | Birth rate | Fertility rate | Total fertility rate | Teenage birth rate |             |             |
|----------------------------------|------------------|------------|----------------|----------------------|--------------------|-------------|-------------|
|                                  |                  |            |                |                      | 15-19 years        |             |             |
|                                  |                  |            |                |                      | Total              | 15-17 years | 18-19 years |
| United States <sup>1</sup> ..... | 3,959,417        | 14.5       | 65.9           | 2,075.0              | 49.6               | 28.7        | 80.3        |
| Alabama .....                    | 62,122           | 14.2       | 63.3           | 1,965.5              | 62.8               | 38.3        | 95.9        |
| Alaska .....                     | 9,950            | 16.1       | 74.3           | 2,445.5              | 41.8               | 24.5        | 67.7        |
| Arizona .....                    | 81,145           | 17.0       | 81.1           | 2,543.0              | 69.6               | 41.8        | 111.1       |
| Arkansas .....                   | 36,729           | 14.4       | 67.7           | 2,092.5              | 68.1               | 37.6        | 112.3       |
| California .....                 | 518,508          | 15.6       | 69.5           | 2,151.0              | 50.7               | 30.9        | 78.5        |
| Colorado .....                   | 62,167           | 15.3       | 69.8           | 2,255.0              | 48.4               | 28.7        | 78.0        |
| Connecticut .....                | 43,310           | 13.2       | 61.9           | 1,945.5              | 33.3               | 18.7        | 57.6        |
| Delaware .....                   | 10,676           | 14.2       | 61.7           | 1,946.0              | 54.3               | 33.7        | 82.3        |
| District of Columbia .....       | 7,522            | 14.5       | 60.0           | 1,901.0              | 83.5               | 67.0        | 100.4       |
| Florida .....                    | 197,023          | 13.0       | 65.1           | 2,092.5              | 53.5               | 30.9        | 88.6        |
| Georgia .....                    | 126,717          | 16.3       | 68.8           | 2,158.0              | 65.1               | 38.1        | 104.0       |
| Hawaii .....                     | 17,038           | 14.4       | 68.7           | 2,216.5              | 43.8               | 25.6        | 67.2        |
| Idaho .....                      | 19,872           | 15.9       | 73.2           | 2,288.0              | 43.7               | 25.1        | 68.9        |
| Illinois .....                   | 182,068          | 15.0       | 68.0           | 2,139.5              | 51.1               | 29.5        | 83.6        |
| Indiana .....                    | 86,031           | 14.5       | 65.2           | 2,057.5              | 51.6               | 27.5        | 86.8        |
| Iowa .....                       | 37,558           | 13.1       | 62.3           | 1,991.0              | 35.8               | 18.3        | 61.4        |
| Kansas .....                     | 38,782           | 14.6       | 67.5           | 2,151.0              | 47.4               | 24.2        | 81.5        |
| Kentucky .....                   | 54,403           | 13.7       | 61.5           | 1,925.0              | 56.4               | 30.3        | 93.1        |
| Louisiana .....                  | 67,136           | 15.4       | 67.7           | 2,088.5              | 62.8               | 37.9        | 96.9        |
| Maine .....                      | 13,616           | 10.9       | 49.4           | 1,605.0              | 29.8               | 13.8        | 54.8        |
| Maryland .....                   | 71,967           | 13.9       | 60.4           | 1,918.0              | 42.6               | 25.2        | 69.9        |
| Massachusetts .....              | 80,939           | 13.1       | 58.5           | 1,762.5              | 28.7               | 16.2        | 47.2        |
| Michigan .....                   | 133,607          | 13.5       | 60.7           | 1,924.5              | 40.5               | 22.0        | 68.2        |
| Minnesota .....                  | 65,970           | 13.8       | 62.6           | 2,017.0              | 30.0               | 16.2        | 51.2        |
| Mississippi .....                | 42,684           | 15.4       | 67.9           | 2,049.0              | 72.5               | 45.0        | 111.0       |
| Missouri .....                   | 75,432           | 13.8       | 63.0           | 2,014.5              | 49.6               | 26.9        | 83.4        |
| Montana .....                    | 10,785           | 12.2       | 59.8           | 1,967.0              | 35.1               | 18.5        | 60.2        |
| Nebraska .....                   | 23,907           | 14.3       | 66.6           | 2,136.0              | 37.0               | 20.1        | 61.4        |
| Nevada .....                     | 29,362           | 16.2       | 78.3           | 2,519.0              | 64.1               | 37.0        | 106.9       |
| New Hampshire .....              | 14,041           | 11.7       | 50.8           | 1,613.5              | 24.0               | 10.5        | 46.0        |
| New Jersey .....                 | 114,105          | 14.0       | 64.5           | 2,032.5              | 32.8               | 18.2        | 55.5        |
| New Mexico .....                 | 27,191           | 15.6       | 72.2           | 2,300.5              | 67.4               | 42.8        | 104.6       |
| New York .....                   | 255,612          | 14.0       | 63.6           | 1,967.5              | 37.0               | 21.3        | 59.8        |
| North Carolina .....             | 113,795          | 14.9       | 67.6           | 2,133.0              | 59.5               | 34.8        | 96.3        |
| North Dakota .....               | 7,639            | 12.1       | 57.3           | 1,826.0              | 27.7               | 12.9        | 50.0        |
| Ohio .....                       | 152,584          | 13.6       | 61.4           | 1,944.0              | 46.0               | 24.7        | 77.2        |
| Oklahoma .....                   | 49,010           | 14.6       | 68.9           | 2,157.5              | 60.5               | 33.1        | 101.7       |
| Oregon .....                     | 45,204           | 13.6       | 64.8           | 2,068.5              | 46.5               | 25.3        | 78.4        |
| Pennsylvania .....               | 145,347          | 12.1       | 57.4           | 1,830.5              | 36.2               | 20.5        | 60.1        |
| Rhode Island .....               | 12,366           | 12.5       | 57.2           | 1,771.5              | 38.2               | 21.6        | 63.2        |
| South Carolina .....             | 54,948           | 14.1       | 62.1           | 1,931.5              | 60.8               | 38.1        | 91.9        |
| South Dakota .....               | 10,524           | 14.4       | 67.7           | 2,186.5              | 37.6               | 19.3        | 63.4        |
| Tennessee .....                  | 77,803           | 14.2       | 63.5           | 2,008.0              | 62.7               | 35.0        | 102.7       |
| Texas .....                      | 349,245          | 17.4       | 77.6           | 2,427.5              | 70.1               | 43.9        | 108.1       |
| Utah .....                       | 46,290           | 21.7       | 93.1           | 2,745.5              | 40.2               | 22.6        | 62.7        |
| Vermont .....                    | 6,567            | 11.1       | 49.2           | 1,570.0              | 25.7               | 12.1        | 46.3        |
| Virginia .....                   | 95,469           | 13.9       | 59.6           | 1,852.0              | 42.7               | 23.0        | 70.0        |
| Washington .....                 | 79,586           | 13.8       | 62.1           | 1,988.0              | 40.1               | 21.5        | 67.6        |
| West Virginia .....              | 20,728           | 11.5       | 54.7           | 1,687.0              | 47.9               | 24.4        | 81.0        |
| Wisconsin .....                  | 68,208           | 13.0       | 59.3           | 1,902.5              | 35.7               | 20.1        | 59.2        |
| Wyoming .....                    | 6,129            | 12.8       | 60.8           | 1,938.5              | 40.4               | 22.0        | 68.2        |
| Puerto Rico .....                | 59,563           | 15.3       | 65.3           | 1,865.5              | 72.0               | 50.3        | 102.7       |
| Virgin Islands .....             | 1,671            | 14.0       | 64.3           | 1,957.5              | 55.2               | 32.0        | 89.9        |
| Guam .....                       | 4,021            | 26.5       | 129.2          | 3,898.5              | 96.6               | 54.9        | 163.3       |
| American Samoa .....             | 1,736            | 27.2       | 125.1          | 3,746.0              | 46.4               | 21.6        | 86.3        |
| Northern Marianas .....          | 1,381            | 20.0       | 58.9           | 1,665.5              | 62.0               | 50.5        | 76.4        |

<sup>1</sup> Excludes data for the territories.

**Table 11. Live births by race of mother: United States, each State and territory, 1999**

[By place of residence]

| State                            | Number    |           |         |                              |                           |
|----------------------------------|-----------|-----------|---------|------------------------------|---------------------------|
|                                  | All races | White     | Black   | American Indian <sup>1</sup> | Asian or Pacific Islander |
| United States <sup>2</sup> ..... | 3,959,417 | 3,132,501 | 605,970 | 40,170                       | 180,776                   |
| Alabama .....                    | 62,122    | 41,747    | 19,753  | 158                          | 464                       |
| Alaska .....                     | 9,950     | 6,565     | 441     | 2,474                        | 470                       |
| Arizona .....                    | 81,145    | 70,946    | 2,729   | 5,583                        | 1,887                     |
| Arkansas .....                   | 36,729    | 28,421    | 7,680   | 236                          | 392                       |
| California .....                 | 518,508   | 421,541   | 35,403  | 3,243                        | 58,321                    |
| Colorado .....                   | 62,167    | 56,711    | 2,899   | 647                          | 1,910                     |
| Connecticut .....                | 43,310    | 36,277    | 5,383   | 78                           | 1,572                     |
| Delaware .....                   | 10,676    | 7,696     | 2,671   | 32                           | 277                       |
| District of Columbia .....       | 7,522     | 2,200     | 5,167   | 6                            | 149                       |
| Florida .....                    | 197,023   | 146,696   | 45,078  | 850                          | 4,399                     |
| Georgia .....                    | 126,717   | 81,297    | 42,133  | 219                          | 3,068                     |
| Hawaii .....                     | 17,038    | 3,999     | 460     | 203                          | 12,376                    |
| Idaho .....                      | 19,872    | 19,212    | 78      | 299                          | 283                       |
| Illinois .....                   | 182,068   | 140,267   | 34,239  | 214                          | 7,348                     |
| Indiana .....                    | 86,031    | 75,534    | 9,300   | 112                          | 1,085                     |
| Iowa .....                       | 37,558    | 35,363    | 1,164   | 208                          | 823                       |
| Kansas .....                     | 38,782    | 34,611    | 2,855   | 367                          | 949                       |
| Kentucky .....                   | 54,403    | 48,791    | 4,977   | 101                          | 534                       |
| Louisiana .....                  | 67,136    | 38,587    | 27,267  | 325                          | 957                       |
| Maine .....                      | 13,616    | 13,242    | 106     | 99                           | 169                       |
| Maryland .....                   | 71,967    | 44,385    | 24,260  | 194                          | 3,128                     |
| Massachusetts .....              | 80,939    | 68,328    | 8,168   | 151                          | 4,292                     |
| Michigan .....                   | 133,607   | 105,354   | 24,044  | 700                          | 3,509                     |
| Minnesota .....                  | 65,970    | 57,518    | 4,016   | 1,174                        | 3,262                     |
| Mississippi .....                | 42,684    | 22,665    | 19,406  | 224                          | 389                       |
| Missouri .....                   | 75,432    | 62,592    | 11,273  | 332                          | 1,235                     |
| Montana .....                    | 10,785    | 9,376     | 35      | 1,278                        | 96                        |
| Nebraska .....                   | 23,907    | 21,685    | 1,268   | 467                          | 487                       |
| Nevada .....                     | 29,362    | 25,036    | 2,194   | 431                          | 1,701                     |
| New Hampshire .....              | 14,041    | 13,628    | 139     | 27                           | 247                       |
| New Jersey .....                 | 114,105   | 84,444    | 21,133  | 187                          | 8,341                     |
| New Mexico .....                 | 27,191    | 22,864    | 497     | 3,460                        | 370                       |
| New York .....                   | 255,612   | 183,874   | 53,381  | 687                          | 17,670                    |
| North Carolina .....             | 113,795   | 81,236    | 28,428  | 1,679                        | 2,452                     |
| North Dakota .....               | 7,639     | 6,743     | 87      | 730                          | 79                        |
| Ohio .....                       | 152,584   | 127,733   | 22,087  | 281                          | 2,483                     |
| Oklahoma .....                   | 49,010    | 38,684    | 4,629   | 4,836                        | 861                       |
| Oregon .....                     | 45,204    | 41,417    | 904     | 704                          | 2,179                     |
| Pennsylvania .....               | 145,347   | 121,104   | 20,363  | 354                          | 3,526                     |
| Rhode Island .....               | 12,366    | 10,787    | 984     | 152                          | 443                       |
| South Carolina .....             | 54,948    | 34,985    | 19,069  | 159                          | 735                       |
| South Dakota .....               | 10,524    | 8,671     | 89      | 1,663                        | 101                       |
| Tennessee .....                  | 77,803    | 60,004    | 16,498  | 142                          | 1,159                     |
| Texas .....                      | 349,245   | 298,081   | 40,097  | 801                          | 10,266                    |
| Utah .....                       | 46,290    | 44,040    | 265     | 619                          | 1,366                     |
| Vermont .....                    | 6,567     | 6,473     | 40      | 9                            | 45                        |
| Virginia .....                   | 95,469    | 68,509    | 22,173  | 150                          | 4,637                     |
| Washington .....                 | 79,586    | 68,273    | 3,331   | 1,875                        | 6,107                     |
| West Virginia .....              | 20,728    | 19,799    | 752     | 11                           | 166                       |
| Wisconsin .....                  | 68,208    | 58,770    | 6,505   | 971                          | 1,962                     |
| Wyoming .....                    | 6,129     | 5,740     | 72      | 268                          | 49                        |
| Puerto Rico .....                | 59,563    | 54,548    | 5,003   | ---                          | ---                       |
| Virgin Islands .....             | 1,671     | 313       | 1,288   | 65                           | 5                         |
| Guam .....                       | 4,021     | 320       | 49      | 2                            | 3,650                     |
| American Samoa .....             | 1,736     | 6         | -       | -                            | 1,730                     |
| Northern Marianas .....          | 1,381     | 30        | -       | -                            | 1,351                     |

- Quantity zero.

--- Data not available.

<sup>1</sup> Includes births to Aleuts and Eskimos.<sup>2</sup> Excludes data for the territories.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

**Table 12. Live births by Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, each State and territory, 1999**

[By place of residence]

| State                      | All origins | Origin of mother |         |              |        |                            |                            |                    |           |         | Not stated |
|----------------------------|-------------|------------------|---------|--------------|--------|----------------------------|----------------------------|--------------------|-----------|---------|------------|
|                            |             | Hispanic         |         |              |        |                            |                            | Non-Hispanic       |           |         |            |
|                            |             | Total            | Mexican | Puerto Rican | Cuban  | Central and South American | Other and unknown Hispanic | Total <sup>1</sup> | White     | Black   |            |
| United States <sup>2</sup> | 3,959,417   | 764,339          | 540,674 | 57,138       | 13,088 | 103,307                    | 50,132                     | 3,147,580          | 2,346,450 | 588,981 | 47,498     |
| Alabama                    | 62,122      | 1,588            | 1,129   | 97           | 20     | 114                        | 228                        | 60,499             | 40,190    | 19,719  | 35         |
| Alaska                     | 9,950       | 594              | 257     | 43           | 9      | 44                         | 241                        | 9,305              | 6,066     | 427     | 51         |
| Arizona                    | 81,145      | 32,011           | 30,605  | 216          | 43     | 557                        | 590                        | 48,050             | 38,853    | 2,600   | 1,084      |
| Arkansas                   | 36,729      | 1,968            | 1,702   | 18           | 2      | 214                        | 32                         | 34,725             | 26,448    | 7,666   | 36         |
| California                 | 518,508     | 249,364          | 217,450 | 2,019        | 686    | 24,708                     | 4,501                      | 266,240            | 172,336   | 34,250  | 2,904      |
| Colorado                   | 62,167      | 16,282           | 11,504  | 219          | 29     | 514                        | 4,016                      | 45,842             | 40,705    | 2,793   | 43         |
| Connecticut                | 43,310      | 6,323            | 505     | 4,141        | 85     | 1,366                      | 226                        | 34,770             | 28,226    | 4,993   | 2,217      |
| Delaware                   | 10,676      | 857              | 390     | 306          | 4      | 151                        | 6                          | 9,813              | 6,863     | 2,643   | 6          |
| District of Columbia       | 7,522       | 790              | 57      | 6            | 2      | 676                        | 49                         | 6,680              | 1,411     | 5,116   | 52         |
| Florida                    | 197,023     | 41,484           | 9,386   | 7,851        | 9,120  | 13,883                     | 1,244                      | 155,375            | 106,383   | 44,083  | 164        |
| Georgia                    | 126,717     | 10,557           | 8,331   | 500          | 129    | 1,403                      | 194                        | 114,645            | 70,016    | 41,532  | 1,515      |
| Hawaii                     | 17,038      | 2,210            | 439     | 672          | 14     | 68                         | 1,017                      | 14,803             | 3,340     | 425     | 25         |
| Idaho                      | 19,872      | 2,356            | 2,059   | 21           | 7      | 57                         | 212                        | 17,443             | 16,810    | 74      | 73         |
| Illinois                   | 182,068     | 36,959           | 31,145  | 2,796        | 203    | 1,090                      | 1,725                      | 145,011            | 103,430   | 34,023  | 98         |
| Indiana                    | 86,031      | 4,365            | 3,496   | 288          | 21     | 301                        | 259                        | 81,316             | 70,896    | 9,262   | 350        |
| Iowa                       | 37,558      | 1,844            | 1,502   | 45           | 7      | 193                        | 97                         | 35,350             | 33,261    | 1,116   | 364        |
| Kansas                     | 38,782      | 4,272            | 3,558   | 75           | 24     | 195                        | 420                        | 34,142             | 30,030    | 2,823   | 368        |
| Kentucky                   | 54,403      | 951              | 646     | 97           | 37     | 136                        | 35                         | 53,403             | 47,837    | 4,948   | 49         |
| Louisiana                  | 67,136      | 1,538            | 616     | 107          | 68     | 170                        | 577                        | 65,191             | 36,936    | 27,036  | 407        |
| Maine                      | 13,616      | 135              | 22      | 19           | 2      | 24                         | 68                         | 12,787             | 12,449    | 86      | 694        |
| Maryland                   | 71,967      | 4,088            | 725     | 319          | 49     | 2,238                      | 757                        | 67,561             | 40,400    | 24,048  | 318        |
| Massachusetts              | 80,939      | 8,797            | 335     | 4,385        | 80     | 3,640                      | 357                        | 71,692             | 60,744    | 6,548   | 450        |
| Michigan                   | 133,607     | 6,230            | 4,854   | 437          | 75     | 337                        | 527                        | 119,462            | 91,860    | 23,692  | 7,915      |
| Minnesota                  | 65,970      | 3,316            | 2,593   | 90           | 19     | 401                        | 213                        | 59,199             | 50,952    | 3,921   | 3,455      |
| Mississippi                | 42,684      | 451              | 235     | 27           | 7      | 27                         | 155                        | 42,175             | 22,171    | 19,398  | 58         |
| Missouri                   | 75,432      | 2,260            | 1,699   | 92           | 23     | 268                        | 178                        | 73,113             | 60,350    | 11,231  | 59         |
| Montana                    | 10,785      | 318              | 167     | 11           | 5      | 11                         | 124                        | 10,320             | 8,954     | 32      | 147        |
| Nebraska                   | 23,907      | 2,293            | 1,809   | 25           | 8      | 245                        | 206                        | 21,044             | 18,851    | 1,257   | 570        |
| Nevada                     | 29,362      | 9,268            | 7,593   | 183          | 149    | 845                        | 498                        | 19,690             | 15,575    | 2,117   | 404        |
| New Hampshire              | 14,041      | 357              | 79      | 105          | 7      | 104                        | 62                         | 13,140             | 12,753    | 121     | 544        |
| New Jersey                 | 114,105     | 21,313           | 3,148   | 7,022        | 869    | 9,948                      | 326                        | 92,339             | 64,762    | 19,151  | 453        |
| New Mexico                 | 27,191      | 13,827           | 4,558   | 56           | 30     | 118                        | 9,065                      | 13,356             | 9,168     | 465     | 8          |
| New York                   | 255,612     | 53,004           | 6,858   | 14,604       | 410    | 21,617                     | 9,515                      | 190,103            | 124,484   | 47,512  | 12,505     |
| North Carolina             | 113,795     | 9,871            | 7,413   | 594          | 114    | 1,657                      | 93                         | 103,880            | 71,496    | 28,286  | 44         |
| North Dakota               | 7,639       | 121              | 76      | 5            | 2      | 7                          | 31                         | 7,260              | 6,463     | 84      | 258        |
| Ohio                       | 152,584     | 3,422            | 1,703   | 1,122        | 45     | 363                        | 189                        | 148,495            | 124,221   | 21,572  | 667        |
| Oklahoma                   | 49,010      | 3,919            | 3,039   | 114          | 11     | 241                        | 514                        | 44,123             | 34,159    | 4,466   | 968        |
| Oregon                     | 45,204      | 6,904            | 6,426   | 73           | 31     | 269                        | 105                        | 37,920             | 34,247    | 878     | 380        |
| Pennsylvania               | 145,347     | 7,161            | 1,031   | 4,793        | 97     | 506                        | 734                        | 137,469            | 113,655   | 20,000  | 717        |
| Rhode Island               | 12,366      | 1,893            | 113     | 596          | 12     | 1,045                      | 127                        | 8,763              | 7,362     | 856     | 1,710      |
| South Carolina             | 54,948      | 1,720            | 1,171   | 167          | 27     | 259                        | 96                         | 53,160             | 33,315    | 19,030  | 68         |
| South Dakota               | 10,524      | 179              | 119     | 7            | 3      | 36                         | 14                         | 10,337             | 8,505     | 88      | 8          |
| Tennessee                  | 77,803      | 2,432            | 1,799   | 140          | 36     | 347                        | 110                        | 75,334             | 57,589    | 16,471  | 37         |
| Texas                      | 349,245     | 157,736          | 139,983 | 1,046        | 297    | 7,793                      | 8,617                      | 190,264            | 139,861   | 39,515  | 1,245      |
| Utah                       | 46,290      | 5,425            | 4,370   | 92           | 8      | 498                        | 457                        | 40,754             | 38,551    | 254     | 111        |
| Vermont                    | 6,567       | 40               | 8       | 12           | 2      | 4                          | 14                         | 6,384              | 6,297     | 35      | 143        |
| Virginia                   | 95,469      | 6,520            | 1,457   | 575          | 80     | 4,014                      | 394                        | 88,764             | 62,054    | 22,034  | 185        |
| Washington                 | 79,586      | 10,359           | 8,930   | 288          | 49     | 410                        | 682                        | 65,747             | 55,433    | 3,043   | 3,480      |
| West Virginia              | 20,728      | 96               | 36      | 14           | 4      | 17                         | 25                         | 20,597             | 19,679    | 746     | 35         |
| Wisconsin                  | 68,208      | 4,041            | 3,115   | 603          | 26     | 171                        | 126                        | 64,149             | 54,828    | 6,446   | 18         |
| Wyoming                    | 6,129       | 530              | 433     | 5            | 1      | 7                          | 84                         | 5,596              | 5,225     | 69      | 3          |
| Puerto Rico                | 59,563      | ---              | ---     | ---          | ---    | ---                        | ---                        | ---                | ---       | ---     | 59,563     |
| Virgin Islands             | 1,671       | 300              | 10      | 226          | 2      | -                          | 62                         | 1,297              | 98        | 1,142   | 74         |
| Guam                       | 4,021       | 46               | 26      | 11           | -      | 1                          | 8                          | 3,928              | 286       | 48      | 47         |
| American Samoa             | 1,736       | ---              | ---     | ---          | ---    | ---                        | ---                        | ---                | ---       | ---     | 1,736      |
| Northern Marianas          | 1,381       | ---              | ---     | ---          | ---    | ---                        | ---                        | ---                | ---       | ---     | 1,381      |

- Quantity zero.

--- Data not available.

<sup>1</sup> Includes races other than white and black.<sup>2</sup> Excludes data for the territories.

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.



**Table 13. Total number of births, rates (birth, fertility, and total fertility), and percent of births with selected demographic characteristics, by detailed race of mother and place of birth of mother: United States, 1999**

| Characteristic                                      | All races | White     | Black   | American Indian <sup>1</sup> | Asian or Pacific Islander |         |          |          |          |         |
|---|-----------|-----------|---------|------------------------------|---------------------------|---------|----------|----------|----------|---------|
|   |           |           |         |                              | Total                     | Chinese | Japanese | Hawaiian | Filipino | Other   |
| Number  |           |           |         |                              |                           |         |          |          |          |         |
| Births .....  | 3,959,417 | 3,132,501 | 605,970 | 40,170                       | 180,776                   | 28,853  | 8,722    | 6,093    | 30,677   | 106,431 |
| Rate  |           |           |         |                              |                           |         |          |          |          |         |
| Birth rate <sup>2</sup> .....                       | 14.5      | 13.9      | 17.4    | 16.8                         | 16.7                      | ---     | ---      | ---      | ---      | ---     |
| Fertility rate <sup>3</sup> .....                   | 65.9      | 65.1      | 70.1    | 69.7                         | 65.6                      | ---     | ---      | ---      | ---      | ---     |
| Total fertility rate <sup>4</sup> .....             | 2,075.0   | 2,065.0   | 2,146.5 | 2,056.5                      | 1,927.0                   | ---     | ---      | ---      | ---      | ---     |
| Sex ratio <sup>5</sup> .....                        | 1,049     | 1,052     | 1,031   | 1,029                        | 1,064                     | 1,075   | 1,063    | 1,047    | 1,069    | 1,062   |
| Percent   |           |           |         |                              |                           |         |          |          |          |         |
| All births  |           |           |         |                              |                           |         |          |          |          |         |
| Births to mothers under 20 years ....               | 12.3      | 10.9      | 20.7    | 20.2                         | 5.1                       | 0.9     | 2.1      | 18.2     | 5.9      | 5.5     |
| 4th- and higher-order births .....                  | 10.5      | 9.7       | 14.9    | 19.1                         | 7.2                       | 2.3     | 3.9      | 14.3     | 7.2      | 8.4     |
| Births to unmarried mothers .....                   | 33.0      | 26.8      | 68.9    | 58.9                         | 15.4                      | 6.9     | 9.9      | 50.4     | 21.1     | 14.5    |
| Mothers completing 12 years or more of school ..... | 78.3      | 78.7      | 74.0    | 67.8                         | 87.6                      | 88.0    | 98.0     | 83.2     | 93.7     | 85.2    |
| Mothers born in the 50 States and DC .....          | 79.8      | 81.5      | 88.6    | 96.0                         | 16.7                      | 9.7     | 41.3     | 97.8     | 20.1     | 10.9    |
| Mothers born in the 50 States and DC                |           |           |         |                              |                           |         |          |          |          |         |
| Births to mothers under 20 years ....               | 13.3      | 11.2      | 22.4    | 20.7                         | 16.0                      | 4.2     | 4.5      | 18.3     | 15.8     | 21.5    |
| 4th- and higher-order births .....                  | 10.0      | 8.8       | 15.0    | 19.4                         | 7.6                       | 3.8     | 4.7      | 14.2     | 7.2      | 6.2     |
| Births to unmarried mothers .....                   | 34.0      | 25.6      | 72.1    | 60.1                         | 33.8                      | 11.3    | 17.6     | 50.7     | 39.6     | 32.5    |
| Mothers completing 12 years or more of school ..... | 82.6      | 84.8      | 73.0    | 67.8                         | 87.1                      | 96.1    | 96.6     | 83.3     | 88.9     | 83.0    |
| Mothers born outside the 50 States and DC           |           |           |         |                              |                           |         |          |          |          |         |
| Births to mothers under 20 years ....               | 8.1       | 9.6       | 6.6     | 7.1                          | 2.9                       | 0.5     | 0.5      | *        | 3.4      | 3.6     |
| 4th- and higher-order births .....                  | 12.6      | 13.9      | 13.2    | 11.3                         | 7.1                       | 2.2     | 3.4      | 20.8     | 7.1      | 8.6     |
| Births to unmarried mothers .....                   | 29.2      | 32.1      | 43.3    | 29.1                         | 11.7                      | 6.4     | 4.5      | 37.4     | 16.4     | 12.3    |
| Mothers completing 12 years or more of school ..... | 60.9      | 51.5      | 81.8    | 67.9                         | 87.7                      | 87.1    | 99.1     | 76.2     | 94.9     | 85.4    |

--- Data not available.

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.

<sup>1</sup> Includes births to Aleuts and Eskimos.<sup>2</sup> Birth rate per 1,000 population.<sup>3</sup> Fertility rate per 1,000 women aged 15-44 years.<sup>4</sup> Rates are sums of birth rates for 5-year age groups multiplied by 5.<sup>5</sup> Male live births per 1,000 female live births.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

**Table 14. Total number of births, rates (birth, fertility, and total fertility), and percent of births with selected demographic characteristics, by Hispanic origin of mother and by race for mothers of non-Hispanic origin and by place of birth of mother: United States, 1999**

| Characteristic                                      | All origins <sup>1</sup> | Hispanic |         |              |         |                            |                            | Non-Hispanic       |           |         |
|---|--------------------------|----------|---------|--------------|---------|----------------------------|----------------------------|--------------------|-----------|---------|
|   |                          | Total    | Mexican | Puerto Rican | Cuban   | Central and South American | Other and unknown Hispanic | Total <sup>2</sup> | White     | Black   |
| Number  |                          |          |         |              |         |                            |                            |                    |           |         |
| Births .....  | 3,959,417                | 764,339  | 540,674 | 57,138       | 13,088  | 103,307                    | 50,132                     | 3,147,580          | 2,346,450 | 588,981 |
| Rate  |                          |          |         |              |         |                            |                            |                    |           |         |
| Birth rate <sup>3</sup> .....                       | 14.5                     | 24.4     | 26.4    | 19.4         | 9.7     | <sup>7</sup> 23.4          |                            | 13.2               | 12.2      | 17.9    |
| Fertility rate <sup>4</sup> .....                   | 65.9                     | 102.0    | 111.6   | 77.7         | 51.2    | <sup>7</sup> 92.6          |                            | 60.7               | 57.8      | 72.2    |
| Total fertility rate <sup>5</sup> .....             | 2,075.0                  | 2,985.0  | 3,181.5 | 2,378.0      | 1,563.0 | <sup>7</sup> 2,836.5       |                            | 1,929.5            | 1,850.0   | 2,212.5 |
| Sex ratio <sup>6</sup> .....                        | 1,049                    | 1,041    | 1,040   | 1,031        | 1,038   | 1,054                      | 1,037                      | 1,051              | 1,055     | 1,032   |
| Percent   |                          |          |         |              |         |                            |                            |                    |           |         |
| All births  |                          |          |         |              |         |                            |                            |                    |           |         |
| Births to mothers under 20 years ....               | 12.3                     | 16.7     | 17.4    | 21.1         | 7.7     | 10.0                       | 19.5                       | 11.2               | 9.2       | 20.7    |
| 4th- and higher-order births .....                  | 10.5                     | 13.5     | 14.6    | 11.9         | 5.3     | 11.2                       | 10.6                       | 9.8                | 8.5       | 14.9    |
| Births to unmarried mothers .....                   | 33.0                     | 42.2     | 40.1    | 59.6         | 26.4    | 43.7                       | 45.8                       | 30.9               | 22.1      | 69.1    |
| Mothers completing 12 years or more of school ..... | 78.3                     | 50.9     | 44.8    | 65.6         | 87.7    | 62.1                       | 67.5                       | 84.8               | 87.4      | 74.1    |
| Mothers born in the 50 States and DC .....          | 79.8                     | 39.2     | 38.7    | 64.6         | 41.4    | 10.4                       | 74.6                       | 89.5               | 94.8      | 89.9    |
| Mothers born in the 50 States and DC                |                          |          |         |              |         |                            |                            |                    |           |         |
| Births to mothers under 20 years ....               | 13.3                     | 25.0     | 26.2    | 23.1         | 13.4    | 21.1                       | 22.8                       | 12.1               | 9.5       | 22.4    |
| 4th- and higher-order births .....                  | 10.0                     | 11.2     | 11.8    | 11.0         | 5.3     | 5.0                        | 10.5                       | 9.8                | 8.5       | 15.1    |
| Births to unmarried mothers .....                   | 34.0                     | 48.0     | 46.3    | 62.1         | 27.2    | 45.3                       | 47.4                       | 32.5               | 22.7      | 72.2    |
| Mothers completing 12 years or more of school ..... | 82.6                     | 65.5     | 63.5    | 65.8         | 87.0    | 79.3                       | 69.2                       | 84.4               | 87.3      | 73.1    |
| Mothers born outside the 50 States and DC           |                          |          |         |              |         |                            |                            |                    |           |         |
| Births to mothers under 20 years ....               | 8.1                      | 11.3     | 11.9    | 17.5         | 3.7     | 8.7                        | 9.4                        | 3.7                | 3.5       | 6.1     |
| 4th- and higher-order births .....                  | 12.6                     | 15.0     | 16.3    | 13.5         | 5.2     | 11.9                       | 10.8                       | 9.1                | 9.5       | 13.6    |
| Births to unmarried mothers .....                   | 29.2                     | 38.3     | 36.1    | 54.9         | 25.9    | 43.6                       | 39.9                       | 16.6               | 10.6      | 41.0    |
| Mothers completing 12 years or more of school ..... | 60.9                     | 41.4     | 32.9    | 65.3         | 88.2    | 60.1                       | 62.7                       | 88.0               | 90.3      | 84.0    |

<sup>1</sup> Includes origin not stated.<sup>2</sup> Includes races other than white and black.<sup>3</sup> Birth rate per 1,000 population.<sup>4</sup> Fertility rate per 1,000 women aged 15-44 years.<sup>5</sup> Rates are sums of birth rates for 5-year age groups multiplied by 5.<sup>6</sup> Male live births per 1,000 female live births.<sup>7</sup> Includes Central and South American and other and unknown Hispanic.

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.

**Table 15. Live births by race of mother and observed and seasonally adjusted birth and fertility rates, by month: United States, 1999**

[Rates on an annual basis per 1,000 population for specified month. Birth rates are live births per 1,000 total population. Fertility rates are live births per 1,000 women aged 15-44 years]

| Month           | Number                 |           |         | Observed   |                | Seasonally adjusted <sup>1</sup> |                |
|-----------------|------------------------|-----------|---------|------------|----------------|----------------------------------|----------------|
|                 | All races <sup>2</sup> | White     | Black   | Birth rate | Fertility rate | Birth rate                       | Fertility rate |
| Total .....     | 3,959,417              | 3,132,501 | 605,970 | 14.5       | 65.9           | ...                              | ...            |
| January .....   | 319,182                | 249,763   | 51,703  | 13.8       | 62.5           | 14.5                             | 65.3           |
| February .....  | 297,568                | 234,996   | 46,119  | 14.3       | 64.6           | 14.5                             | 65.6           |
| March .....     | 332,939                | 264,758   | 49,704  | 14.4       | 65.2           | 14.7                             | 66.9           |
| April .....     | 316,889                | 253,265   | 45,896  | 14.2       | 64.2           | 14.4                             | 65.2           |
| May .....       | 328,526                | 262,086   | 48,059  | 14.2       | 64.4           | 14.3                             | 65.0           |
| June .....      | 332,201                | 264,732   | 49,122  | 14.8       | 67.3           | 14.6                             | 66.3           |
| July .....      | 349,812                | 277,492   | 53,190  | 15.1       | 68.5           | 14.5                             | 65.5           |
| August .....    | 351,371                | 278,200   | 54,025  | 15.2       | 68.8           | 14.6                             | 66.3           |
| September ..... | 349,409                | 276,895   | 53,181  | 15.6       | 70.7           | 14.7                             | 66.9           |
| October .....   | 332,980                | 263,164   | 51,078  | 14.3       | 65.2           | 14.5                             | 65.7           |
| November .....  | 315,289                | 247,481   | 49,655  | 14.0       | 63.8           | 14.5                             | 66.1           |
| December .....  | 333,251                | 259,669   | 54,238  | 14.3       | 65.3           | 14.5                             | 65.8           |

... Category not applicable.

<sup>1</sup> The method of seasonal adjustment, developed by the U.S. Bureau of the Census, is described in *The X11 Variant of the Census Method II Seasonal Adjustment Program*, Technical Paper No. 15 (1967 revision).

<sup>2</sup> Includes races other than white and black.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

**Table 16. Live births by day of week and index of occurrence by method of delivery, day of week, and race of mother: United States, 1999**

| Day of week and race of mother | Average number of births | Total <sup>2</sup> | Index of occurrence <sup>1</sup> |                    |         |        |
|--------------------------------|--------------------------|--------------------|----------------------------------|--------------------|---------|--------|
|                                |                          |                    | Vaginal                          | Method of delivery |         |        |
|                                |                          |                    |                                  | Total              | Primary | Repeat |
| All races <sup>3</sup> .....   | 10,848                   | 100.0              | 100.0                            | 100.0              | 100.0   | 100.0  |
| Sunday .....                   | 7,731                    | 71.3               | 76.6                             | 52.7               | 62.3    | 36.4   |
| Monday .....                   | 11,018                   | 101.6              | 100.1                            | 106.5              | 98.0    | 120.8  |
| Tuesday .....                  | 12,424                   | 114.5              | 112.1                            | 122.9              | 119.5   | 128.7  |
| Wednesday .....                | 12,183                   | 112.3              | 110.4                            | 118.9              | 116.8   | 122.4  |
| Thursday .....                 | 11,893                   | 109.6              | 108.0                            | 115.2              | 113.0   | 118.8  |
| Friday .....                   | 12,012                   | 110.7              | 107.9                            | 120.6              | 115.6   | 129.0  |
| Saturday .....                 | 8,654                    | 79.8               | 84.6                             | 63.0               | 74.6    | 43.5   |
| White .....                    | 8,582                    | 100.0              | 100.0                            | 100.0              | 100.0   | 100.0  |
| Sunday .....                   | 5,963                    | 69.5               | 74.9                             | 50.5               | 60.4    | 34.0   |
| Monday .....                   | 8,763                    | 102.1              | 100.6                            | 107.2              | 98.2    | 122.1  |
| Tuesday .....                  | 9,910                    | 115.5              | 113.1                            | 123.8              | 120.6   | 129.1  |
| Wednesday .....                | 9,711                    | 113.2              | 111.2                            | 119.8              | 117.7   | 123.3  |
| Thursday .....                 | 9,481                    | 110.5              | 108.9                            | 116.0              | 113.4   | 120.3  |
| Friday .....                   | 9,540                    | 111.2              | 108.2                            | 121.6              | 116.7   | 129.9  |
| Saturday .....                 | 6,691                    | 78.0               | 82.9                             | 60.8               | 72.7    | 41.0   |
| Black .....                    | 1,660                    | 100.0              | 100.0                            | 100.0              | 100.0   | 100.0  |
| Sunday .....                   | 1,288                    | 77.6               | 82.7                             | 60.9               | 69.9    | 45.5   |
| Monday .....                   | 1,643                    | 99.0               | 97.4                             | 103.9              | 96.6    | 116.3  |
| Tuesday .....                  | 1,854                    | 111.7              | 109.1                            | 120.0              | 115.7   | 127.3  |
| Wednesday .....                | 1,815                    | 109.3              | 107.2                            | 116.1              | 113.8   | 120.1  |
| Thursday .....                 | 1,776                    | 107.0              | 105.4                            | 112.2              | 111.7   | 112.9  |
| Friday .....                   | 1,809                    | 109.0              | 107.1                            | 115.5              | 110.9   | 123.3  |
| Saturday .....                 | 1,434                    | 86.4               | 91.0                             | 71.2               | 81.1    | 54.3   |

<sup>1</sup> Index is the ratio of the average number of births by a specified method of delivery on a given day of the week to the average daily number of births by a specified method of delivery for the year, multiplied by 100.

<sup>2</sup> Includes method of delivery not stated.

<sup>3</sup> Includes races other than white and black.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

**Table 17. Number, birth rate, and percent of births to unmarried women by age, race, and Hispanic origin of mother: United States, 1999**

| Measure and age of mother                                | All races <sup>1</sup> | White   |              | Black   |              | Hispanic <sup>2</sup> |
|--|------------------------|---------|--------------|---------|--------------|-----------------------|
|  |                        | Total   | Non-Hispanic | Total   | Non-Hispanic |                       |
| <b>Number</b>  |                        |         |              |         |              |                       |
| All ages .....   | 1,308,560              | 839,552 | 518,291      | 417,476 | 406,802      | 322,311               |
| Under 15 years .....                                     | 8,737                  | 4,457   | 1,954        | 3,958   | 3,871        | 2,542                 |
| 15-19 years .....  | 374,485                | 245,467 | 154,620      | 115,739 | 113,114      | 90,935                |
| 15 years .....   | 21,407                 | 12,821  | 6,409        | 7,812   | 7,648        | 6,470                 |
| 16 years .....   | 46,078                 | 29,623  | 16,465       | 14,747  | 14,390       | 13,237                |
| 17 years .....   | 75,906                 | 50,509  | 30,811       | 22,592  | 22,094       | 19,745                |
| 18 years .....   | 105,288                | 69,957  | 45,906       | 31,589  | 30,862       | 24,005                |
| 19 years .....   | 125,806                | 82,557  | 55,029       | 38,999  | 38,120       | 27,478                |
| 20-24 years .....  | 476,497                | 303,489 | 191,268      | 155,600 | 151,977      | 112,439               |
| 25-29 years .....  | 246,873                | 156,933 | 91,864       | 78,984  | 76,821       | 65,387                |
| 30-34 years .....  | 124,894                | 79,427  | 46,787       | 39,643  | 38,279       | 32,975                |
| 35-39 years .....  | 62,637                 | 40,308  | 25,592       | 19,362  | 18,711       | 14,768                |
| 40 years and over .....                                  | 14,437                 | 9,471   | 6,206        | 4,190   | 4,029        | 3,265                 |
| <b>Rate per 1,000 unmarried women in specified group</b> |                        |         |              |         |              |                       |
| 15-44 years <sup>3</sup> .....                           | 44.4                   | 38.1    | 27.9         | 71.5    | ---          | 93.4                  |
| 15-19 years .....  | 40.4                   | 33.7    | 25.5         | 78.4    | ---          | 73.8                  |
| 15-17 years .....  | 25.5                   | 21.0    | 14.6         | 51.5    | ---          | 52.4                  |
| 18-19 years .....  | 63.3                   | 53.3    | 42.3         | 117.9   | ---          | 107.6                 |
| 20-24 years .....  | 72.9                   | 61.4    | 46.0         | 130.3   | ---          | 143.3                 |
| 25-29 years .....  | 60.2                   | 53.4    | 37.0         | 89.6    | ---          | 143.6                 |
| 30-34 years .....  | 39.3                   | 35.8    | 25.0         | 50.3    | ---          | 93.3                  |
| 35-39 years .....  | 19.3                   | 17.5    | 13.0         | 24.7    | ---          | 44.1                  |
| 40-44 years <sup>4</sup> .....                           | 4.6                    | 4.1     | 3.1          | 5.9     | ---          | 11.3                  |
| <b>Percent of births to unmarried women</b>              |                        |         |              |         |              |                       |
| All ages .....   | 33.0                   | 26.8    | 22.1         | 68.9    | 69.1         | 42.2                  |
| Under 15 years .....                                     | 96.5                   | 94.0    | 95.4         | 99.5    | 99.5         | 93.3                  |
| 15-19 years .....  | 78.7                   | 72.6    | 72.6         | 95.5    | 95.6         | 72.9                  |
| 15 years .....   | 93.5                   | 90.3    | 92.0         | 99.3    | 99.4         | 88.8                  |
| 16 years .....   | 89.4                   | 85.5    | 87.2         | 98.7    | 98.7         | 83.6                  |
| 17 years .....   | 85.1                   | 80.5    | 81.8         | 97.8    | 97.8         | 78.6                  |
| 18 years .....   | 78.6                   | 72.7    | 73.7         | 95.9    | 96.0         | 71.0                  |
| 19 years .....   | 70.5                   | 63.5    | 63.2         | 92.2    | 92.3         | 64.4                  |
| 20-24 years .....  | 48.5                   | 40.6    | 37.2         | 80.5    | 80.7         | 48.6                  |
| 25-29 years .....  | 22.9                   | 18.0    | 13.8         | 56.9    | 57.0         | 32.1                  |
| 30-34 years .....  | 14.0                   | 10.7    | 7.8          | 43.3    | 43.3         | 25.1                  |
| 35-39 years .....  | 14.4                   | 11.3    | 8.7          | 41.0    | 40.9         | 25.4                  |
| 40 years and over .....                                  | 16.5                   | 13.4    | 10.7         | 42.0    | 41.9         | 27.3                  |

--- Data not available.

<sup>1</sup> Includes races other than white and black and origin not stated.<sup>2</sup> Includes all persons of Hispanic origin of any race.<sup>3</sup> Birth rates computed by relating total births to unmarried mothers, regardless of age of mother, to unmarried women aged 15-44 years.<sup>4</sup> Birth rates computed by relating births to unmarried mothers aged 40 years and over to unmarried women aged 40-44 years.

NOTES: For 48 States and the District of Columbia, marital status is reported on the birth certificate; for Michigan and New York, mother's marital status is inferred; see Technical notes. Rates cannot be computed for unmarried non-Hispanic black women because the necessary populations are not available.

**Table 18. Birth rates for unmarried women by age of mother: United States, 1970, 1975, and 1980-99, and by age, race, and Hispanic origin of mother: United States, 1980-99**

[Rates are live births to unmarried women per 1,000 unmarried women. Population estimated as of July 1]

| Year and race<br>and Hispanic origin | Age of Mother               |             |                |                |                |                |                |                |                             |
|--------------------------------------|-----------------------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------------------|
|                                      | 15-44<br>years <sup>1</sup> | 15-19 years |                |                | 20-24<br>years | 25-29<br>years | 30-34<br>years | 35-39<br>years | 40-44<br>years <sup>2</sup> |
|                                      |                             | Total       | 15-17<br>years | 18-19<br>years |                |                |                |                |                             |
| All races <sup>3</sup>               |                             |             |                |                |                |                |                |                |                             |
| 1999 <sup>4</sup>                    | 44.4                        | 40.4        | 25.5           | 63.3           | 72.9           | 60.2           | 39.3           | 19.3           | 4.6                         |
| 1998 <sup>4</sup>                    | 44.3                        | 41.5        | 27.0           | 64.5           | 72.3           | 58.4           | 39.1           | 19.0           | 4.6                         |
| 1997 <sup>4</sup>                    | 44.0                        | 42.2        | 28.2           | 65.2           | 71.0           | 56.2           | 39.0           | 19.0           | 4.6                         |
| 1996 <sup>4</sup>                    | 44.8                        | 42.9        | 29.0           | 65.9           | 70.7           | 56.8           | 41.1           | 20.1           | 4.8                         |
| 1995 <sup>4</sup>                    | 45.1                        | 44.4        | 30.5           | 67.6           | 70.3           | 56.1           | 39.6           | 19.5           | 4.7                         |
| 1994 <sup>4</sup>                    | 46.9                        | 46.4        | 32.0           | 70.1           | 72.2           | 59.0           | 40.1           | 19.8           | 4.7                         |
| 1993 <sup>4</sup>                    | 45.3                        | 44.5        | 30.6           | 66.9           | 69.2           | 57.1           | 38.5           | 19.0           | 4.4                         |
| 1992 <sup>4</sup>                    | 45.2                        | 44.6        | 30.4           | 67.3           | 68.5           | 56.5           | 37.9           | 18.8           | 4.1                         |
| 1991 <sup>4</sup>                    | 45.2                        | 44.8        | 30.9           | 65.7           | 68.0           | 56.5           | 38.1           | 18.0           | 3.8                         |
| 1990 <sup>4</sup>                    | 43.8                        | 42.5        | 29.6           | 60.7           | 65.1           | 56.0           | 37.6           | 17.3           | 3.6                         |
| 1989 <sup>4</sup>                    | 41.6                        | 40.1        | 28.7           | 56.0           | 61.2           | 52.8           | 34.9           | 16.0           | 3.4                         |
| 1988 <sup>4</sup>                    | 38.5                        | 36.4        | 26.4           | 51.5           | 56.0           | 48.5           | 32.0           | 15.0           | 3.2                         |
| 1987 <sup>4</sup>                    | 36.0                        | 33.8        | 24.5           | 48.9           | 52.6           | 44.5           | 29.6           | 13.5           | 2.9                         |
| 1986 <sup>4</sup>                    | 34.2                        | 32.3        | 22.8           | 48.0           | 49.3           | 42.2           | 27.2           | 12.2           | 2.7                         |
| 1985 <sup>4</sup>                    | 32.8                        | 31.4        | 22.4           | 45.9           | 46.5           | 39.9           | 25.2           | 11.6           | 2.5                         |
| 1984 <sup>4,5</sup>                  | 31.0                        | 30.0        | 21.9           | 42.5           | 43.0           | 37.1           | 23.3           | 10.9           | 2.5                         |
| 1983 <sup>4,5</sup>                  | 30.3                        | 29.5        | 22.0           | 40.7           | 41.8           | 35.5           | 22.4           | 10.2           | 2.6                         |
| 1982 <sup>4,5</sup>                  | 30.0                        | 28.7        | 21.5           | 39.6           | 41.5           | 35.1           | 21.9           | 10.0           | 2.7                         |
| 1981 <sup>4,5</sup>                  | 29.5                        | 27.9        | 20.9           | 39.0           | 41.1           | 34.5           | 20.8           | 9.8            | 2.6                         |
| 1980 <sup>4,5</sup>                  | 29.4                        | 27.6        | 20.6           | 39.0           | 40.9           | 34.0           | 21.1           | 9.7            | 2.6                         |
| 1980 <sup>5,6</sup>                  | 28.4                        | 27.5        | 20.7           | 38.7           | 39.7           | 31.4           | 18.5           | 8.4            | 2.3                         |
| 1975 <sup>5,6</sup>                  | 24.5                        | 23.9        | 19.3           | 32.5           | 31.2           | 27.5           | 17.9           | 9.1            | 2.6                         |
| 1970 <sup>6,7</sup>                  | 26.4                        | 22.4        | 17.1           | 32.9           | 38.4           | 37.0           | 27.1           | 13.6           | 3.5                         |
| White, total                         |                             |             |                |                |                |                |                |                |                             |
| 1999 <sup>4</sup>                    | 38.1                        | 33.7        | 21.0           | 53.3           | 61.4           | 53.4           | 35.8           | 17.5           | 4.1                         |
| 1998 <sup>4</sup>                    | 37.5                        | 34.0        | 21.8           | 53.5           | 60.5           | 50.9           | 34.9           | 17.0           | 4.0                         |
| 1997 <sup>4</sup>                    | 37.0                        | 34.2        | 22.4           | 53.6           | 59.2           | 49.3           | 34.4           | 16.7           | 3.9                         |
| 1996 <sup>4</sup>                    | 37.6                        | 34.5        | 22.7           | 54.1           | 59.0           | 49.9           | 36.1           | 17.8           | 4.3                         |
| 1995 <sup>4</sup>                    | 37.5                        | 35.5        | 23.6           | 55.4           | 58.0           | 48.7           | 34.2           | 16.9           | 4.2                         |
| 1994 <sup>4</sup>                    | 38.3                        | 36.2        | 24.1           | 56.4           | 58.1           | 49.7           | 34.2           | 17.3           | 4.3                         |
| 1993 <sup>4</sup>                    | 35.9                        | 33.6        | 22.1           | 52.4           | 54.2           | 46.7           | 32.2           | 16.4           | 3.9                         |
| 1992 <sup>4</sup>                    | 35.2                        | 33.0        | 21.6           | 51.5           | 52.7           | 45.4           | 31.5           | 16.2           | 3.6                         |
| 1991 <sup>4</sup>                    | 34.6                        | 32.8        | 21.8           | 49.6           | 51.5           | 44.6           | 31.1           | 15.2           | 3.2                         |
| 1990 <sup>4</sup>                    | 32.9                        | 30.6        | 20.4           | 44.9           | 48.2           | 43.0           | 29.9           | 14.5           | 3.2                         |
| 1989 <sup>4</sup>                    | 30.2                        | 28.0        | 19.3           | 40.2           | 43.8           | 39.1           | 26.8           | 13.1           | 2.9                         |
| 1988 <sup>4</sup>                    | 27.4                        | 25.3        | 17.6           | 36.8           | 39.2           | 35.4           | 24.2           | 12.1           | 2.7                         |
| 1987 <sup>4</sup>                    | 25.3                        | 23.2        | 16.2           | 34.5           | 36.6           | 32.0           | 22.3           | 10.7           | 2.4                         |
| 1986 <sup>4</sup>                    | 23.9                        | 21.8        | 14.9           | 33.5           | 34.2           | 30.5           | 20.1           | 9.7            | 2.2                         |
| 1985 <sup>4</sup>                    | 22.5                        | 20.8        | 14.5           | 31.2           | 31.7           | 28.5           | 18.4           | 9.0            | 2.0                         |
| 1984 <sup>4,5</sup>                  | 20.6                        | 19.3        | 13.7           | 27.9           | 28.5           | 25.5           | 16.8           | 8.4            | 2.0                         |
| 1983 <sup>4,5</sup>                  | 19.8                        | 18.7        | 13.6           | 26.4           | 27.1           | 23.8           | 15.9           | 7.8            | 2.0                         |
| 1982 <sup>4,5</sup>                  | 19.3                        | 18.0        | 13.1           | 25.3           | 26.5           | 23.1           | 15.3           | 7.4            | 2.1                         |
| 1981 <sup>4,5</sup>                  | 18.6                        | 17.2        | 12.6           | 24.6           | 25.8           | 22.3           | 14.2           | 7.2            | 1.9                         |
| 1980 <sup>4,5</sup>                  | 18.1                        | 16.5        | 12.0           | 24.1           | 25.1           | 21.5           | 14.1           | 7.1            | 1.8                         |
| White, non-Hispanic                  |                             |             |                |                |                |                |                |                |                             |
| 1999 <sup>4</sup>                    | 27.9                        | 25.5        | 14.6           | 42.3           | 46.0           | 37.0           | 25.0           | 13.0           | 3.1                         |
| 1998 <sup>4</sup>                    | 28.0                        | 26.1        | 15.6           | 42.8           | 46.0           | 36.1           | 25.2           | 13.1           | 3.0                         |
| 1997 <sup>4</sup>                    | 27.6                        | 26.4        | 16.2           | 43.1           | 44.8           | 35.2           | 25.1           | 12.7           | 2.9                         |
| 1996 <sup>4</sup>                    | 28.3                        | 27.0        | 16.9           | 43.8           | 44.5           | 35.7           | 26.6           | 13.9           | 3.3                         |
| 1995 <sup>4</sup>                    | 28.2                        | 27.7        | 17.6           | 44.5           | 43.8           | 34.9           | 25.3           | 13.0           | 3.2                         |
| 1994 <sup>4</sup>                    | 28.5                        | 28.1        | 18.0           | 45.0           | 43.8           | 35.0           | 24.8           | 12.9           | 3.1                         |
| 1993 <sup>4</sup>                    | ---                         | ---         | ---            | ---            | ---            | ---            | ---            | ---            | ---                         |
| 1992 <sup>4</sup>                    | ---                         | ---         | ---            | ---            | ---            | ---            | ---            | ---            | ---                         |
| 1991 <sup>4</sup>                    | ---                         | ---         | ---            | ---            | ---            | ---            | ---            | ---            | ---                         |
| 1990 <sup>4,8</sup>                  | 24.4                        | 25.0        | 16.2           | 37.0           | 36.4           | 30.3           | 20.5           | 6.1            | ---                         |

See footnotes at end of table.

**Table 18. Birth rates for unmarried women by age of mother: United States, 1970, 1975, and 1980-99, and by age, race, and Hispanic origin of mother: United States, 1980-99 --Con.**

[Rates are live births to unmarried women per 1,000 unmarried women. Population estimated as of July 1]

| Year and race<br>and Hispanic origin | Age of Mother               |             |                |                |                |                |                |                |                             |
|--------------------------------------|-----------------------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------------------|
|                                      | 15-44<br>years <sup>1</sup> | 15-19 years |                |                | 20-24<br>years | 25-29<br>years | 30-34<br>years | 35-39<br>years | 40-44<br>years <sup>2</sup> |
|                                      |                             | Total       | 15-17<br>years | 18-19<br>years |                |                |                |                |                             |
| <b>Black, total</b>                  |                             |             |                |                |                |                |                |                |                             |
| 1999 <sup>4</sup>                    | 71.5                        | 78.4        | 51.5           | 117.9          | 130.3          | 89.6           | 50.3           | 24.7           | 5.9                         |
| 1998 <sup>4</sup>                    | 73.3                        | 83.4        | 56.5           | 123.5          | 131.0          | 90.3           | 51.7           | 24.7           | 6.1                         |
| 1997 <sup>4</sup>                    | 73.4                        | 86.4        | 60.6           | 127.2          | 127.8          | 85.2           | 52.3           | 24.7           | 6.5                         |
| 1996 <sup>4</sup>                    | 74.4                        | 89.2        | 64.0           | 129.2          | 125.8          | 84.5           | 54.5           | 25.5           | 6.1                         |
| 1995 <sup>4</sup>                    | 75.9                        | 92.8        | 68.6           | 131.2          | 127.7          | 84.8           | 54.3           | 25.6           | 6.0                         |
| 1994 <sup>4</sup>                    | 82.1                        | 100.9       | 75.1           | 141.6          | 138.1          | 93.6           | 57.2           | 26.3           | 5.9                         |
| 1993 <sup>4</sup>                    | 84.0                        | 102.4       | 76.8           | 141.6          | 142.2          | 94.5           | 57.3           | 25.9           | 5.8                         |
| 1992 <sup>4</sup>                    | 86.5                        | 105.9       | 78.0           | 147.8          | 144.3          | 98.2           | 57.7           | 25.8           | 5.4                         |
| 1991 <sup>4</sup>                    | 89.5                        | 108.5       | 80.4           | 148.7          | 147.5          | 100.9          | 60.1           | 25.6           | 5.4                         |
| 1990 <sup>4</sup>                    | 90.5                        | 106.0       | 78.8           | 143.7          | 144.8          | 105.3          | 61.5           | 25.5           | 5.1                         |
| 1989 <sup>4</sup>                    | 90.7                        | 104.5       | 78.9           | 140.9          | 142.4          | 102.9          | 60.5           | 24.9           | 5.0                         |
| 1988 <sup>4</sup>                    | 86.5                        | 96.1        | 73.5           | 130.5          | 133.6          | 97.2           | 57.4           | 24.1           | 5.0                         |
| 1987 <sup>4</sup>                    | 82.6                        | 90.9        | 69.9           | 123.0          | 126.1          | 91.6           | 53.1           | 22.4           | 4.7                         |
| 1986 <sup>4</sup>                    | 79.0                        | 88.5        | 67.0           | 121.1          | 118.0          | 84.6           | 50.0           | 20.6           | 4.4                         |
| 1985 <sup>4</sup>                    | 77.0                        | 87.6        | 66.8           | 117.9          | 113.1          | 79.3           | 47.5           | 20.4           | 4.3                         |
| 1984 <sup>4,5</sup>                  | 75.2                        | 86.1        | 66.5           | 113.6          | 107.9          | 77.8           | 43.8           | 19.4           | 4.3                         |
| 1983 <sup>4,5</sup>                  | 76.2                        | 85.5        | 66.8           | 111.9          | 107.2          | 79.7           | 43.8           | 19.4           | 4.8                         |
| 1982 <sup>4,5</sup>                  | 77.9                        | 85.1        | 66.3           | 112.7          | 109.3          | 82.7           | 44.1           | 19.5           | 5.2                         |
| 1981 <sup>4,5</sup>                  | 79.4                        | 85.0        | 65.9           | 114.2          | 110.7          | 83.1           | 45.5           | 19.6           | 5.6                         |
| 1980 <sup>4,5</sup>                  | 81.1                        | 87.9        | 68.8           | 118.2          | 112.3          | 81.4           | 46.7           | 19.0           | 5.5                         |
| <b>Hispanic<sup>9</sup></b>          |                             |             |                |                |                |                |                |                |                             |
| 1999 <sup>4</sup>                    | 93.4                        | 73.8        | 52.4           | 107.6          | 143.3          | 143.6          | 93.3           | 44.1           | 11.3                        |
| 1998 <sup>4</sup>                    | 90.1                        | 73.9        | 53.0           | 107.8          | 135.0          | 136.0          | 85.4           | 40.1           | 12.0                        |
| 1997 <sup>4</sup>                    | 91.4                        | 75.2        | 55.0           | 109.5          | 139.1          | 135.0          | 86.1           | 42.0           | 12.2                        |
| 1996 <sup>4</sup>                    | 93.2                        | 74.5        | 53.4           | 110.4          | 146.5          | 139.1          | 90.8           | 42.3           | 12.3                        |
| 1995 <sup>4</sup>                    | 95.0                        | 78.7        | 56.3           | 117.9          | 148.9          | 133.8          | 89.2           | 43.4           | 12.2                        |
| 1994 <sup>4</sup>                    | 101.2                       | 82.6        | 59.0           | 123.6          | 154.8          | 141.6          | 95.5           | 48.4           | 14.0                        |
| 1993 <sup>4</sup>                    | 95.2                        | 74.6        | 51.9           | 114.6          | 140.5          | 137.7          | 90.9           | 47.8           | 14.1                        |
| 1992 <sup>4</sup>                    | 95.3                        | 72.9        | 51.0           | 110.5          | 142.2          | 138.3          | 91.8           | 48.1           | 14.5                        |
| 1991 <sup>4</sup>                    | 93.7                        | 72.4        | 50.5           | 109.6          | 135.4          | 137.5          | 89.1           | 47.7           | 14.2                        |
| 1990 <sup>4</sup>                    | 89.6                        | 65.9        | 45.9           | 98.9           | 129.8          | 131.7          | 88.1           | 50.8           | 13.7                        |

--- Data not available.

<sup>1</sup> Rates computed by relating total births to unmarried mothers, regardless of age of mother, to unmarried women aged 15-44 years.<sup>2</sup> Rates computed by relating births to unmarried mothers aged 40 years and over to unmarried women aged 40-44 years.<sup>3</sup> Includes races other than white and black.<sup>4</sup> Data for States in which marital status was not reported have been inferred and included with data from the remaining States; see Technical notes.<sup>5</sup> Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.<sup>6</sup> Births to unmarried women are estimated for the United States from data for registration areas in which marital status of mother was reported; see Technical notes.<sup>7</sup> Based on a 50-percent sample of births.<sup>8</sup> Rates for 1990 based on data for 48 States and the District of Columbia which reported Hispanic origin on the birth certificate. Rate shown for ages 35-39 years is based on births to unmarried women aged 35-44 years.<sup>9</sup> Includes all persons of Hispanic origin of any race.

NOTE: Rates cannot be computed for unmarried non-Hispanic black women because the necessary populations are not available.

**Table 19. Number and percent of births to unmarried women by race and Hispanic origin of mother: United States, each State and territory, 1999**

[By place of residence]

| State                      | Births to unmarried women |         |              |         |              |                       | Percent unmarried      |       |              |       |              |                       |
|----------------------------|---------------------------|---------|--------------|---------|--------------|-----------------------|------------------------|-------|--------------|-------|--------------|-----------------------|
|                            | All races <sup>1</sup>    | White   |              | Black   |              | Hispanic <sup>2</sup> | All races <sup>1</sup> | White |              | Black |              | Hispanic <sup>2</sup> |
|                            |                           | Total   | Non-Hispanic | Total   | Non-Hispanic |                       |                        | Total | Non-Hispanic | Total | Non-Hispanic |                       |
| United States <sup>3</sup> | 1,308,560                 | 839,552 | 518,291      | 417,476 | 406,802      | 322,311               | 33.0                   | 26.8  | 22.1         | 68.9  | 69.1         | 42.2                  |
| Alabama                    | 20,693                    | 7,194   | 6,781        | 13,390  | 13,378       | 420                   | 33.3                   | 17.2  | 16.9         | 67.8  | 67.8         | 26.4                  |
| Alaska                     | 3,301                     | 1,519   | 1,375        | 205     | 199          | 189                   | 33.2                   | 23.1  | 22.7         | 46.5  | 46.6         | 31.8                  |
| Arizona                    | 31,463                    | 25,537  | 9,564        | 1,737   | 1,660        | 16,081                | 38.8                   | 36.0  | 24.6         | 63.6  | 63.8         | 50.2                  |
| Arkansas                   | 12,932                    | 7,028   | 6,352        | 5,732   | 5,723        | 688                   | 35.2                   | 24.7  | 24.0         | 74.6  | 74.7         | 35.0                  |
| California                 | 170,372                   | 138,021 | 35,752       | 22,163  | 21,463       | 103,006               | 32.9                   | 32.7  | 20.7         | 62.6  | 62.7         | 41.3                  |
| Colorado                   | 15,818                    | 13,669  | 7,483        | 1,580   | 1,518        | 6,325                 | 25.4                   | 24.1  | 18.4         | 54.5  | 54.4         | 38.8                  |
| Connecticut                | 12,562                    | 8,766   | 4,636        | 3,624   | 3,366        | 3,958                 | 29.0                   | 24.2  | 16.4         | 67.3  | 67.4         | 62.6                  |
| Delaware                   | 4,147                     | 2,159   | 1,745        | 1,946   | 1,919        | 440                   | 38.8                   | 28.1  | 25.4         | 72.9  | 72.6         | 51.3                  |
| District of Columbia       | 4,642                     | 538     | 115          | 4,078   | 4,050        | 427                   | 61.7                   | 24.5  | 8.2          | 78.9  | 79.2         | 54.1                  |
| Florida                    | 73,824                    | 42,556  | 27,767       | 30,270  | 29,708       | 15,460                | 37.5                   | 29.0  | 26.1         | 67.2  | 67.4         | 37.3                  |
| Georgia                    | 46,328                    | 17,808  | 14,028       | 28,087  | 27,824       | 3,734                 | 36.6                   | 21.9  | 20.0         | 66.7  | 67.0         | 35.4                  |
| Hawaii                     | 5,593                     | 710     | 559          | 115     | 99           | 1,004                 | 32.8                   | 17.8  | 16.7         | 25.0  | 23.3         | 45.4                  |
| Idaho                      | 4,302                     | 4,058   | 3,308        | 32      | 30           | 738                   | 21.6                   | 21.1  | 19.7         | 41.0  | 40.5         | 31.3                  |
| Illinois                   | 62,088                    | 35,033  | 20,050       | 26,433  | 26,292       | 15,083                | 34.1                   | 25.0  | 19.4         | 77.2  | 77.3         | 40.8                  |
| Indiana                    | 29,640                    | 22,294  | 20,230       | 7,167   | 7,146        | 1,977                 | 34.5                   | 29.5  | 28.5         | 77.1  | 77.2         | 45.3                  |
| Iowa                       | 10,330                    | 9,196   | 8,388        | 830     | 800          | 741                   | 27.5                   | 26.0  | 25.2         | 71.3  | 71.7         | 40.2                  |
| Kansas                     | 11,098                    | 8,804   | 7,110        | 1,975   | 1,958        | 1,656                 | 28.6                   | 25.4  | 23.7         | 69.2  | 69.4         | 38.8                  |
| Kentucky                   | 16,540                    | 12,788  | 12,484       | 3,633   | 3,619        | 302                   | 30.4                   | 26.2  | 26.1         | 73.0  | 73.1         | 31.8                  |
| Louisiana                  | 30,109                    | 9,684   | 9,196        | 20,102  | 19,928       | 474                   | 44.8                   | 25.1  | 24.9         | 73.7  | 73.7         | 30.8                  |
| Maine                      | 4,260                     | 4,114   | 3,798        | 52      | 39           | 49                    | 31.3                   | 31.1  | 30.5         | 49.1  | 45.3         | 36.3                  |
| Maryland                   | 25,083                    | 9,667   | 8,038        | 15,055  | 14,945       | 1,657                 | 34.9                   | 21.8  | 19.9         | 62.1  | 62.1         | 40.5                  |
| Massachusetts              | 21,476                    | 15,842  | 11,340       | 4,832   | 3,853        | 5,398                 | 26.5                   | 23.2  | 18.7         | 59.2  | 58.8         | 61.4                  |
| Michigan                   | 44,184                    | 26,000  | 21,070       | 17,412  | 17,228       | 2,556                 | 33.1                   | 24.7  | 22.9         | 72.4  | 72.7         | 41.0                  |
| Minnesota                  | 17,065                    | 12,862  | 10,980       | 2,484   | 2,431        | 1,562                 | 25.9                   | 22.4  | 21.5         | 61.9  | 62.0         | 47.1                  |
| Mississippi                | 19,606                    | 4,750   | 4,598        | 14,629  | 14,626       | 150                   | 45.9                   | 21.0  | 20.7         | 75.4  | 75.4         | 33.3                  |
| Missouri                   | 25,737                    | 16,729  | 15,853       | 8,629   | 8,607        | 894                   | 34.1                   | 26.7  | 26.3         | 76.5  | 76.6         | 39.6                  |
| Montana                    | 3,232                     | 2,298   | 2,144        | 14      | 13           | 122                   | 30.0                   | 24.5  | 23.9         | *     | *            | 38.4                  |
| Nebraska                   | 6,181                     | 4,920   | 3,840        | 883     | 878          | 943                   | 25.9                   | 22.7  | 20.4         | 69.6  | 69.8         | 41.1                  |
| Nevada                     | 10,483                    | 8,335   | 4,441        | 1,495   | 1,446        | 3,838                 | 35.7                   | 33.3  | 28.5         | 68.1  | 68.3         | 41.4                  |
| New Hampshire              | 3,399                     | 3,316   | 2,995        | 52      | 45           | 146                   | 24.2                   | 24.3  | 23.5         | 37.4  | 37.2         | 40.9                  |
| New Jersey                 | 32,556                    | 18,280  | 8,398        | 13,732  | 12,672       | 10,850                | 28.5                   | 21.6  | 13.0         | 65.0  | 66.2         | 50.9                  |
| New Mexico                 | 12,272                    | 9,446   | 2,446        | 314     | 293          | 7,084                 | 45.1                   | 41.3  | 26.7         | 63.2  | 63.0         | 51.2                  |
| New York                   | 93,613                    | 54,221  | 23,792       | 36,227  | 32,113       | 31,819                | 36.6                   | 29.5  | 19.1         | 67.9  | 67.6         | 60.0                  |
| North Carolina             | 37,814                    | 17,708  | 13,667       | 18,885  | 18,818       | 4,112                 | 33.2                   | 21.8  | 19.1         | 66.4  | 66.5         | 41.7                  |
| North Dakota               | 2,099                     | 1,547   | 1,458        | 23      | 21           | 41                    | 27.5                   | 22.9  | 22.6         | 26.4  | 25.0         | 33.9                  |
| Ohio                       | 52,038                    | 34,846  | 33,246       | 16,805  | 16,380       | 1,627                 | 34.1                   | 27.3  | 26.8         | 76.1  | 75.9         | 47.5                  |
| Oklahoma                   | 16,252                    | 10,552  | 8,983        | 3,277   | 3,172        | 1,445                 | 33.2                   | 27.3  | 26.3         | 70.8  | 71.0         | 36.9                  |
| Oregon                     | 13,750                    | 12,399  | 9,590        | 569     | 550          | 2,732                 | 30.4                   | 29.9  | 28.0         | 62.9  | 62.6         | 39.6                  |
| Pennsylvania               | 47,865                    | 31,502  | 26,968       | 15,768  | 15,507       | 4,393                 | 32.9                   | 26.0  | 23.7         | 77.4  | 77.5         | 61.3                  |
| Rhode Island               | 4,242                     | 3,327   | 1,886        | 647     | 564          | 1,067                 | 34.3                   | 30.8  | 25.6         | 65.8  | 65.9         | 56.4                  |
| South Carolina             | 21,441                    | 7,794   | 7,179        | 13,472  | 13,454       | 639                   | 39.0                   | 22.3  | 21.5         | 70.6  | 70.7         | 37.2                  |
| South Dakota               | 3,348                     | 2,046   | 1,991        | 32      | 32           | 62                    | 31.8                   | 23.6  | 23.4         | 36.0  | 36.4         | 34.6                  |
| Tennessee                  | 26,981                    | 14,597  | 13,691       | 12,114  | 12,100       | 923                   | 34.7                   | 24.3  | 23.8         | 73.4  | 73.5         | 38.0                  |
| Texas                      | 109,244                   | 83,002  | 28,096       | 25,007  | 24,650       | 54,876                | 31.3                   | 27.8  | 20.1         | 62.4  | 62.4         | 34.8                  |
| Utah                       | 7,722                     | 7,032   | 4,987        | 136     | 131          | 2,045                 | 16.7                   | 16.0  | 12.9         | 51.3  | 51.6         | 37.7                  |
| Vermont                    | 1,901                     | 1,866   | 1,801        | 22      | 20           | 14                    | 28.9                   | 28.8  | 28.6         | 55.0  | 57.1         | *                     |
| Virginia                   | 28,334                    | 13,958  | 11,550       | 13,903  | 13,832       | 2,445                 | 29.7                   | 20.4  | 18.6         | 62.7  | 62.8         | 37.5                  |
| Washington                 | 22,335                    | 18,072  | 13,316       | 1,853   | 1,701        | 4,100                 | 28.1                   | 26.5  | 24.0         | 55.6  | 55.9         | 39.6                  |
| West Virginia              | 6,581                     | 5,975   | 5,930        | 585     | 582          | 38                    | 31.7                   | 30.2  | 30.1         | 77.8  | 78.0         | 39.6                  |
| Wisconsin                  | 19,906                    | 13,629  | 11,941       | 5,430   | 5,382        | 1,768                 | 29.2                   | 23.2  | 21.8         | 83.5  | 83.5         | 43.8                  |
| Wyoming                    | 1,778                     | 1,558   | 1,355        | 39      | 37           | 213                   | 29.0                   | 27.1  | 25.9         | 54.2  | 53.6         | 40.2                  |
| Puerto Rico                | 28,658                    | 25,547  | ---          | 3,108   | ---          | ---                   | 48.1                   | 46.8  | ---          | 62.1  | ---          | ---                   |
| Virgin Islands             | 1,121                     | 161     | 27           | 948     | 839          | 200                   | 67.1                   | 51.4  | 27.6         | 73.6  | 73.5         | 66.7                  |
| Guam                       | 2,246                     | 68      | 57           | 18      | 18           | 18                    | 55.9                   | 21.3  | 19.9         | *     | *            | *                     |
| American Samoa             | 616                       | 2       | ---          | -       | ---          | ---                   | 35.5                   | *     | ---          | *     | ---          | ---                   |
| Northern Marianas          | 655                       | 6       | ---          | -       | ---          | ---                   | 47.4                   | *     | ---          | *     | ---          | ---                   |

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.

- Quantity zero.

--- Data not available.

<sup>1</sup> Includes races other than white and black and origin not stated.<sup>2</sup> Includes all persons of Hispanic origin of any race.<sup>3</sup> Excludes data for the territories.

**Table 20. Birth rates by age and race of father: United States, 1980-99**

[Rates are live births per 1,000 men in specified group. Population enumerated as of April 1 for 1980 and 1990 and estimated as of July 1 for all other years. Figures for age of father not stated are distributed]

| Year and race of father | 15-54 years <sup>1</sup> | Age of father            |             |             |             |             |             |             |             |                   |
|-------------------------|--------------------------|--------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------------|
|                         |                          | 15-19 years <sup>2</sup> | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-44 years | 45-49 years | 50-54 years | 55 years and over |
| All races <sup>3</sup>  |                          |                          |             |             |             |             |             |             |             |                   |
| 1999 .....              | 50.8                     | 21.0                     | 83.8        | 114.8       | 101.6       | 54.9        | 21.0        | 7.2         | 2.5         | 0.3               |
| 1998 .....              | 51.0                     | 21.6                     | 84.8        | 112.6       | 99.2        | 53.9        | 20.9        | 7.2         | 2.5         | 0.3               |
| 1997 .....              | 50.4                     | 22.2                     | 83.4        | 108.5       | 95.7        | 52.1        | 20.6        | 7.1         | 2.5         | 0.3               |
| 1996 .....              | 51.1                     | 23.0                     | 84.4        | 107.7       | 94.3        | 51.5        | 20.4        | 6.9         | 2.5         | 0.3               |
| 1995 .....              | 52.0                     | 24.3                     | 86.0        | 107.2       | 93.3        | 51.0        | 20.3        | 7.1         | 2.6         | 0.3               |
| 1994 .....              | 53.2                     | 25.0                     | 87.3        | 108.8       | 93.3        | 50.9        | 20.2        | 7.2         | 2.6         | 0.3               |
| 1993 .....              | 54.4                     | 24.8                     | 87.1        | 110.8       | 93.5        | 51.1        | 20.2        | 7.3         | 2.7         | 0.4               |
| 1992 .....              | 55.8                     | 24.6                     | 87.7        | 113.1       | 94.2        | 51.3        | 20.4        | 7.3         | 2.7         | 0.4               |
| 1991 .....              | 57.1                     | 24.8                     | 88.0        | 114.7       | 95.1        | 51.8        | 20.2        | 7.5         | 2.7         | 0.4               |
| 1990 .....              | 58.4                     | 23.5                     | 88.0        | 116.4       | 97.8        | 53.0        | 21.0        | 7.5         | 2.8         | 0.4               |
| 1989 .....              | 57.2                     | 21.9                     | 85.4        | 114.3       | 94.8        | 51.3        | 20.4        | 7.4         | 2.7         | 0.6               |
| 1988 .....              | 55.8                     | 19.6                     | 82.4        | 111.6       | 93.2        | 49.9        | 19.9        | 7.1         | 2.7         | 0.4               |
| 1987 .....              | 55.0                     | 18.3                     | 80.5        | 109.9       | 91.2        | 48.6        | 19.0        | 6.9         | 2.6         | 0.4               |
| 1986 .....              | 54.8                     | 17.9                     | 80.3        | 109.6       | 90.3        | 46.8        | 18.3        | 6.7         | 2.6         | 0.4               |
| 1985 .....              | 55.6                     | 18.0                     | 81.2        | 112.3       | 91.1        | 47.3        | 18.1        | 6.6         | 2.5         | 0.4               |
| 1984 <sup>4</sup> ..... | 55.0                     | 17.8                     | 80.7        | 111.4       | 89.9        | 46.0        | 17.8        | 6.3         | 2.4         | 0.4               |
| 1983 <sup>4</sup> ..... | 55.1                     | 18.2                     | 82.6        | 113.0       | 89.1        | 45.2        | 17.4        | 6.4         | 2.3         | 0.4               |
| 1982 <sup>4</sup> ..... | 56.4                     | 18.6                     | 86.5        | 117.3       | 90.3        | 44.5        | 17.5        | 6.4         | 2.3         | 0.4               |
| 1981 <sup>4</sup> ..... | 56.3                     | 18.4                     | 88.4        | 119.1       | 88.7        | 43.3        | 17.0        | 6.2         | 2.3         | 0.4               |
| 1980 <sup>4</sup> ..... | 57.0                     | 18.8                     | 92.0        | 123.1       | 91.0        | 42.8        | 17.1        | 6.1         | 2.2         | 0.3               |
| White                   |                          |                          |             |             |             |             |             |             |             |                   |
| 1999 .....              | 48.2                     | 17.5                     | 76.8        | 113.4       | 101.7       | 53.4        | 19.6        | 6.4         | 2.1         | 0.3               |
| 1998 .....              | 48.3                     | 18.0                     | 77.5        | 110.9       | 99.1        | 52.5        | 19.4        | 6.4         | 2.2         | 0.3               |
| 1997 .....              | 47.7                     | 18.2                     | 76.1        | 106.8       | 95.3        | 50.6        | 19.1        | 6.3         | 2.1         | 0.3               |
| 1996 .....              | 48.4                     | 18.8                     | 77.2        | 106.4       | 94.0        | 50.2        | 19.0        | 6.2         | 2.1         | 0.2               |
| 1995 .....              | 49.2                     | 19.7                     | 78.5        | 105.7       | 92.9        | 49.6        | 19.0        | 6.3         | 2.2         | 0.2               |
| 1994 .....              | 50.0                     | 19.8                     | 78.5        | 106.4       | 92.5        | 49.3        | 18.9        | 6.3         | 2.2         | 0.3               |
| 1993 .....              | 50.9                     | 19.2                     | 77.9        | 108.0       | 92.4        | 49.2        | 18.6        | 6.4         | 2.2         | 0.2               |
| 1992 .....              | 52.2                     | 18.9                     | 78.2        | 110.1       | 93.2        | 49.3        | 18.8        | 6.4         | 2.2         | 0.3               |
| 1991 .....              | 53.3                     | 19.1                     | 78.4        | 111.5       | 93.6        | 49.7        | 18.5        | 6.5         | 2.2         | 0.3               |
| 1990 .....              | 54.6                     | 18.1                     | 78.3        | 113.2       | 96.1        | 50.9        | 19.2        | 6.5         | 2.2         | 0.3               |
| 1989 .....              | 53.3                     | 16.7                     | 75.9        | 110.8       | 93.0        | 49.1        | 18.7        | 6.3         | 2.1         | 0.4               |
| 1988 .....              | 52.2                     | 14.8                     | 73.7        | 108.3       | 91.2        | 47.6        | 18.1        | 6.1         | 2.1         | 0.3               |
| 1987 .....              | 51.6                     | 13.9                     | 72.8        | 107.0       | 89.5        | 46.2        | 17.3        | 5.9         | 2.0         | 0.3               |
| 1986 .....              | 51.7                     | 13.8                     | 73.3        | 107.0       | 88.7        | 44.4        | 16.6        | 5.7         | 2.0         | 0.3               |
| 1985 .....              | 52.6                     | 14.0                     | 74.7        | 109.9       | 89.5        | 44.8        | 16.3        | 5.6         | 1.9         | 0.3               |
| 1984 <sup>4</sup> ..... | 51.8                     | 14.0                     | 74.3        | 108.8       | 87.9        | 43.5        | 16.0        | 5.3         | 1.9         | 0.3               |
| 1983 <sup>4</sup> ..... | 52.0                     | 14.4                     | 76.3        | 110.2       | 86.8        | 42.6        | 15.5        | 5.3         | 1.8         | 0.3               |
| 1982 <sup>4</sup> ..... | 53.1                     | 14.9                     | 80.1        | 114.2       | 87.5        | 41.7        | 15.6        | 5.3         | 1.9         | 0.3               |
| 1981 <sup>4</sup> ..... | 52.9                     | 15.0                     | 81.7        | 115.8       | 85.8        | 40.3        | 15.0        | 5.2         | 1.8         | 0.3               |
| 1980 <sup>4</sup> ..... | 53.4                     | 15.4                     | 84.9        | 119.4       | 87.8        | 39.7        | 15.0        | 5.1         | 1.8         | 0.3               |
| Black                   |                          |                          |             |             |             |             |             |             |             |                   |
| 1999 .....              | 66.9                     | 41.5                     | 133.5       | 134.0       | 95.4        | 55.2        | 26.6        | 11.6        | 5.3         | 1.0               |
| 1998 .....              | 68.1                     | 43.3                     | 136.8       | 134.4       | 94.3        | 54.9        | 26.7        | 11.9        | 5.3         | 1.0               |
| 1997 .....              | 68.0                     | 45.6                     | 136.6       | 130.2       | 91.8        | 53.3        | 26.1        | 11.7        | 5.5         | 1.1               |
| 1996 .....              | 68.3                     | 47.2                     | 138.0       | 127.2       | 89.3        | 52.3        | 25.7        | 11.6        | 5.5         | 1.1               |
| 1995 .....              | 70.1                     | 50.5                     | 140.5       | 126.6       | 89.6        | 52.6        | 25.7        | 12.1        | 5.6         | 1.1               |
| 1994 .....              | 74.9                     | 54.6                     | 150.5       | 131.9       | 92.9        | 54.2        | 26.4        | 13.0        | 6.0         | 1.1               |
| 1993 .....              | 78.3                     | 56.6                     | 153.8       | 136.0       | 95.3        | 56.6        | 27.7        | 13.5        | 6.4         | 1.3               |
| 1992 .....              | 81.0                     | 57.4                     | 158.0       | 140.1       | 96.8        | 56.9        | 28.4        | 13.9        | 6.2         | 1.4               |
| 1991 .....              | 83.4                     | 58.0                     | 158.5       | 143.3       | 100.1       | 58.8        | 29.4        | 14.2        | 6.7         | 1.4               |
| 1990 .....              | 84.9                     | 55.2                     | 158.2       | 144.9       | 103.2       | 60.4        | 31.1        | 15.0        | 7.1         | 1.4               |
| 1989 .....              | 84.1                     | 52.9                     | 153.4       | 143.5       | 101.4       | 59.9        | 31.1        | 14.9        | 6.9         | 2.7               |
| 1988 .....              | 80.7                     | 48.1                     | 144.1       | 137.9       | 100.0       | 58.0        | 30.6        | 14.3        | 6.9         | 1.4               |
| 1987 .....              | 78.3                     | 44.6                     | 136.1       | 133.9       | 97.4        | 58.0        | 30.0        | 13.8        | 6.6         | 1.3               |
| 1986 .....              | 77.2                     | 42.6                     | 131.4       | 131.6       | 97.4        | 58.0        | 29.1        | 13.5        | 6.7         | 1.3               |
| 1985 .....              | 77.2                     | 41.8                     | 129.5       | 132.7       | 97.3        | 59.4        | 29.5        | 13.3        | 6.5         | 1.2               |
| 1984 <sup>4</sup> ..... | 76.7                     | 40.9                     | 128.0       | 132.2       | 98.3        | 58.4        | 29.3        | 13.3        | 6.1         | 1.2               |
| 1983 <sup>4</sup> ..... | 77.2                     | 40.7                     | 129.1       | 134.4       | 99.0        | 59.6        | 29.6        | 13.5        | 6.0         | 1.2               |
| 1982 <sup>4</sup> ..... | 79.5                     | 40.3                     | 133.4       | 141.2       | 103.6       | 61.1        | 29.6        | 13.9        | 6.0         | 1.2               |
| 1981 <sup>4</sup> ..... | 80.4                     | 38.9                     | 138.4       | 145.6       | 104.3       | 61.3        | 29.7        | 13.3        | 5.7         | 1.2               |
| 1980 <sup>4</sup> ..... | 83.0                     | 40.1                     | 145.3       | 152.8       | 109.6       | 62.0        | 31.2        | 13.6        | 5.9         | 1.1               |

<sup>1</sup> Rates computed by relating total births, regardless of age of father, to men aged 15-54 years.

<sup>2</sup> Rates computed by relating births of fathers under 20 years of age to men aged 15-19 years.

<sup>3</sup> Includes races other than white and black.

<sup>4</sup> Based on 100 percent of births in selected States and on a 50-percent sample of births in all other States; see Technical notes.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all men (including Hispanic men) are classified only according to their race; see Technical notes. Age of father was not stated for 14 percent of births in 1999.



**Table 21. Live births by educational attainment, and percent of mothers completing 12 years or more and 16 years or more of school, by age and race and Hispanic origin of mother: United States, 1999**

| Age and race of mother  | Total     | Years of school completed by mother |            |           |             |                  |            | Percent 12 years or more | Percent 16 years or more |
|-------------------------|-----------|-------------------------------------|------------|-----------|-------------|------------------|------------|--------------------------|--------------------------|
|                         |           | 0-8 years                           | 9-11 years | 12 years  | 13-15 years | 16 years or more | Not Stated |                          |                          |
| All races <sup>1</sup>  |           |                                     |            |           |             |                  |            |                          |                          |
| All ages .....          | 3,959,417 | 222,661                             | 623,934    | 1,254,283 | 858,068     | 937,071          | 63,400     | 78.3                     | 24.1                     |
| Under 15 years .....    | 9,054     | 6,823                               | 1,866      | -         | -           | -                | 365        | -                        | -                        |
| 15-19 years .....       | 476,050   | 39,021                              | 246,934    | 157,339   | 23,726      | -                | 9,030      | 38.8                     | -                        |
| 15 years .....          | 22,896    | 6,993                               | 15,190     | -         | -           | -                | 713        | -                        | -                        |
| 16 years .....          | 51,516    | 6,593                               | 42,450     | 1,302     | -           | -                | 1,171      | 2.6                      | -                        |
| 17 years .....          | 89,176    | 6,953                               | 66,600     | 13,539    | 293         | -                | 1,791      | 15.8                     | -                        |
| 18 years .....          | 133,988   | 8,285                               | 63,654     | 55,711    | 3,985       | -                | 2,353      | 45.3                     | -                        |
| 19 years .....          | 178,474   | 10,197                              | 59,040     | 86,787    | 19,448      | -                | 3,002      | 60.5                     | -                        |
| 20-24 years .....       | 981,929   | 60,243                              | 199,572    | 429,099   | 225,011     | 52,477           | 15,527     | 73.1                     | 5.4                      |
| 25-29 years .....       | 1,078,252 | 54,948                              | 101,264    | 331,150   | 284,683     | 290,320          | 15,887     | 85.3                     | 27.3                     |
| 30-34 years .....       | 892,400   | 36,700                              | 48,888     | 216,015   | 207,210     | 370,390          | 13,197     | 90.3                     | 42.1                     |
| 35-39 years .....       | 434,294   | 19,372                              | 21,243     | 101,083   | 98,525      | 186,589          | 7,482      | 90.5                     | 43.7                     |
| 40 years and over ..... | 87,438    | 5,554                               | 4,167      | 19,597    | 18,913      | 37,295           | 1,912      | 88.6                     | 43.6                     |
| White, total            |           |                                     |            |           |             |                  |            |                          |                          |
| All ages .....          | 3,132,501 | 197,659                             | 460,112    | 960,003   | 674,961     | 794,890          | 44,876     | 78.7                     | 25.7                     |
| Under 15 years .....    | 4,739     | 3,545                               | 987        | -         | -           | -                | 207        | -                        | -                        |
| 15-19 years .....       | 337,888   | 32,885                              | 172,330    | 110,533   | 16,037      | -                | 6,103      | 38.1                     | -                        |
| 15 years .....          | 14,193    | 4,638                               | 9,130      | -         | -           | -                | 425        | -                        | -                        |
| 16 years .....          | 34,649    | 5,229                               | 27,739     | 900       | -           | -                | 781        | 2.7                      | -                        |
| 17 years .....          | 62,782    | 6,128                               | 45,951     | 9,266     | 228         | -                | 1,209      | 15.4                     | -                        |
| 18 years .....          | 96,254    | 7,480                               | 45,911     | 38,600    | 2,634       | -                | 1,629      | 43.6                     | -                        |
| 19 years .....          | 130,010   | 9,410                               | 43,599     | 61,767    | 13,175      | -                | 2,059      | 58.6                     | -                        |
| 20-24 years .....       | 748,371   | 56,175                              | 150,646    | 322,029   | 167,513     | 40,992           | 11,016     | 72.0                     | 5.6                      |
| 25-29 years .....       | 873,654   | 50,482                              | 79,784     | 260,246   | 227,565     | 244,155          | 11,422     | 84.9                     | 28.3                     |
| 30-34 years .....       | 739,948   | 32,814                              | 37,998     | 172,385   | 168,819     | 318,484          | 9,448      | 90.3                     | 43.6                     |
| 35-39 years .....       | 356,959   | 17,057                              | 15,441     | 79,792    | 79,861      | 159,468          | 5,340      | 90.8                     | 45.4                     |
| 40 years and over ..... | 70,942    | 4,701                               | 2,926      | 15,018    | 15,166      | 31,791           | 1,340      | 89.0                     | 45.7                     |
| White, non-Hispanic     |           |                                     |            |           |             |                  |            |                          |                          |
| All ages .....          | 2,346,450 | 40,289                              | 252,023    | 733,181   | 568,737     | 730,628          | 21,592     | 87.4                     | 31.4                     |
| Under 15 years .....    | 2,048     | 1,572                               | 402        | -         | -           | -                | 74         | -                        | -                        |
| 15-19 years .....       | 212,923   | 11,478                              | 106,084    | 80,611    | 12,138      | -                | 2,612      | 44.1                     | -                        |
| 15 years .....          | 6,963     | 2,158                               | 4,637      | -         | -           | -                | 168        | -                        | -                        |
| 16 years .....          | 18,886    | 2,203                               | 15,782     | 581       | -           | -                | 320        | 3.1                      | -                        |
| 17 years .....          | 37,671    | 2,187                               | 28,727     | 6,103     | 164         | -                | 490        | 16.9                     | -                        |
| 18 years .....          | 62,282    | 2,378                               | 29,366     | 27,933    | 1,888       | -                | 717        | 48.4                     | -                        |
| 19 years .....          | 87,121    | 2,552                               | 27,572     | 45,994    | 10,086      | -                | 917        | 65.1                     | -                        |
| 20-24 years .....       | 514,386   | 11,442                              | 85,309     | 242,105   | 135,206     | 35,588           | 4,736      | 81.0                     | 7.0                      |
| 25-29 years .....       | 663,569   | 7,853                               | 35,826     | 198,206   | 192,829     | 223,320          | 5,535      | 93.4                     | 33.9                     |
| 30-34 years .....       | 600,830   | 4,683                               | 15,590     | 135,095   | 145,638     | 294,794          | 5,030      | 96.6                     | 49.5                     |
| 35-39 years .....       | 294,590   | 2,513                               | 7,382      | 64,910    | 69,523      | 147,352          | 2,910      | 96.6                     | 50.5                     |
| 40 years and over ..... | 58,104    | 748                                 | 1,430      | 12,254    | 13,403      | 29,574           | 695        | 96.2                     | 51.5                     |
| Black, total            |           |                                     |            |           |             |                  |            |                          |                          |
| All ages .....          | 605,970   | 15,345                              | 139,104    | 234,181   | 137,265     | 67,430           | 12,645     | 74.0                     | 11.4                     |
| Under 15 years .....    | 3,977     | 3,045                               | 790        | -         | -           | -                | 142        | -                        | -                        |
| 15-19 years .....       | 121,166   | 5,165                               | 65,962     | 40,999    | 6,578       | -                | 2,462      | 40.1                     | -                        |
| 15 years .....          | 7,865     | 2,135                               | 5,475      | -         | -           | -                | 255        | -                        | -                        |
| 16 years .....          | 14,942    | 1,148                               | 13,125     | 345       | -           | -                | 324        | 2.4                      | -                        |
| 17 years .....          | 23,112    | 670                                 | 18,190     | 3,701     | 52          | -                | 499        | 16.6                     | -                        |
| 18 years .....          | 32,948    | 624                                 | 15,581     | 15,011    | 1,124       | -                | 608        | 49.9                     | -                        |
| 19 years .....          | 42,299    | 588                                 | 13,591     | 21,942    | 5,402       | -                | 776        | 65.9                     | -                        |
| 20-24 years .....       | 193,211   | 2,477                               | 42,357     | 90,316    | 46,805      | 7,859            | 3,397      | 76.4                     | 4.1                      |
| 25-29 years .....       | 138,868   | 1,927                               | 16,697     | 53,325    | 41,746      | 22,426           | 2,747      | 86.3                     | 16.5                     |
| 30-34 years .....       | 91,486    | 1,448                               | 8,055      | 31,233    | 26,580      | 21,971           | 2,199      | 89.4                     | 24.6                     |
| 35-39 years .....       | 47,277    | 946                                 | 4,332      | 15,186    | 13,005      | 12,456           | 1,352      | 88.5                     | 27.1                     |
| 40 years and over ..... | 9,985     | 337                                 | 911        | 3,122     | 2,551       | 2,718            | 346        | 87.1                     | 28.2                     |

See footnotes at end of table.

**Table 21. Live births by educational attainment, and percent of mothers completing 12 years or more and 16 years or more of school, by age and race of mother: United States, 1999 --Con.**

| Age and race of mother  | Total   | Years of school completed by mother |            |          |             |                  |            | Percent 12 years or more | Percent 16 years or more |
|-------------------------|---------|-------------------------------------|------------|----------|-------------|------------------|------------|--------------------------|--------------------------|
|                         |         | 0-8 years                           | 9-11 years | 12 years | 13-15 years | 16 years or more | Not Stated |                          |                          |
| Black, non-Hispanic     |         |                                     |            |          |             |                  |            |                          |                          |
| All ages .....          | 588,981 | 14,069                              | 135,306    | 228,332  | 133,984     | 65,779           | 11,511     | 74.1                     | 11.4                     |
| Under 15 years .....    | 3,890   | 2,985                               | 768        | -        | -           | -                | 137        | -                        | -                        |
| 15-19 years .....       | 118,285 | 4,990                               | 64,416     | 40,185   | 6,416       | -                | 2,278      | 40.2                     | -                        |
| 15 years .....          | 7,698   | 2,099                               | 5,355      | -        | -           | -                | 244        | -                        | -                        |
| 16 years .....          | 14,573  | 1,115                               | 12,822     | 334      | -           | -                | 302        | 2.3                      | -                        |
| 17 years .....          | 22,580  | 641                                 | 17,804     | 3,612    | 51          | -                | 472        | 16.6                     | -                        |
| 18 years .....          | 32,155  | 590                                 | 15,223     | 14,703   | 1,075       | -                | 564        | 49.9                     | -                        |
| 19 years .....          | 41,279  | 545                                 | 13,212     | 21,536   | 5,290       | -                | 696        | 66.1                     | -                        |
| 20-24 years .....       | 188,247 | 2,178                               | 41,254     | 88,312   | 45,678      | 7,685            | 3,140      | 76.5                     | 4.2                      |
| 25-29 years .....       | 134,784 | 1,624                               | 16,086     | 51,875   | 40,794      | 21,920           | 2,485      | 86.6                     | 16.6                     |
| 30-34 years .....       | 88,403  | 1,214                               | 7,715      | 30,240   | 25,884      | 21,387           | 1,963      | 89.7                     | 24.7                     |
| 35-39 years .....       | 45,746  | 791                                 | 4,183      | 14,697   | 12,724      | 12,145           | 1,206      | 88.8                     | 27.3                     |
| 40 years and over ..... | 9,626   | 287                                 | 884        | 3,023    | 2,488       | 2,642            | 302        | 87.4                     | 28.3                     |
| Hispanic <sup>2</sup>   |         |                                     |            |          |             |                  |            |                          |                          |
| All ages .....          | 764,339 | 158,351                             | 208,350    | 223,122  | 102,507     | 55,076           | 16,933     | 50.9                     | 7.4                      |
| Under 15 years .....    | 2,725   | 2,009                               | 595        | -        | -           | -                | 121        | -                        | -                        |
| 15-19 years .....       | 124,677 | 21,471                              | 66,410     | 29,894   | 3,952       | -                | 2,950      | 27.8                     | -                        |
| 15 years .....          | 7,288   | 2,488                               | 4,563      | -        | -           | -                | 237        | -                        | -                        |
| 16 years .....          | 15,828  | 3,041                               | 12,068     | 322      | -           | -                | 397        | 2.1                      | -                        |
| 17 years .....          | 25,113  | 3,941                               | 17,294     | 3,199    | 65          | -                | 614        | 13.3                     | -                        |
| 18 years .....          | 33,806  | 5,115                               | 16,470     | 10,692   | 780         | -                | 749        | 34.7                     | -                        |
| 19 years .....          | 42,642  | 6,886                               | 16,015     | 15,681   | 3,107       | -                | 953        | 45.1                     | -                        |
| 20-24 years .....       | 231,475 | 44,992                              | 65,256     | 78,955   | 32,008      | 5,189            | 5,075      | 51.3                     | 2.3                      |
| 25-29 years .....       | 203,985 | 42,908                              | 44,035     | 60,819   | 33,421      | 18,418           | 4,384      | 56.4                     | 9.2                      |
| 30-34 years .....       | 131,369 | 28,317                              | 22,464     | 36,321   | 21,855      | 19,637           | 2,775      | 60.5                     | 15.3                     |
| 35-39 years .....       | 58,146  | 14,664                              | 8,102      | 14,437   | 9,623       | 9,989            | 1,331      | 59.9                     | 17.6                     |
| 40 years and over ..... | 11,962  | 3,990                               | 1,488      | 2,696    | 1,648       | 1,843            | 297        | 53.0                     | 15.8                     |

- Quantity zero.

<sup>1</sup> Includes races other than white and black.<sup>2</sup> Includes all persons of Hispanic origin of any race.

**Table 22. Number of live births and percent distribution by weight gain of mother during pregnancy and median weight gain, according to period of gestation, race and Hispanic origin of mother: Total of 49 reporting States and the District of Columbia, 1999**

| Period of gestation <sup>1</sup><br>and race and Hispanic origin<br>of mother | All<br>births | Weight gain during pregnancy |                 |                 |                 |                 |                 |                 |                      |               | Median<br>weight<br>gain in<br>pounds |
|---|---------------|------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------------|---------------|---------------------------------------|
|   |               | Less than<br>16 pounds       | 16-20<br>pounds | 21-25<br>pounds | 26-30<br>pounds | 31-35<br>pounds | 36-40<br>pounds | 41-45<br>pounds | 46 pounds<br>or more | Not<br>stated |                                       |
| Number  |               |                              |                 |                 |                 |                 |                 |                 |                      |               |                                       |
| All gestation periods <sup>2</sup>  |               |                              |                 |                 |                 |                 |                 |                 |                      |               |                                       |
| All races <sup>3</sup> .....  | 3,440,909     | 372,648                      | 338,589         | 437,139         | 569,758         | 440,134         | 405,150         | 210,134         | 379,995              | 287,362       | ...                                   |
| White, total .....  | 2,710,960     | 270,242                      | 255,710         | 346,633         | 458,542         | 363,024         | 330,742         | 172,455         | 303,819              | 209,793       | ...                                   |
| White, non-Hispanic .....   | 2,174,114     | 207,934                      | 196,435         | 279,269         | 376,403         | 304,751         | 277,399         | 145,874         | 256,676              | 129,373       | ...                                   |
| Black, total .....  | 570,567       | 86,756                       | 65,658          | 68,028          | 83,552          | 56,959          | 57,211          | 29,589          | 63,748               | 59,066        | ...                                   |
| Black, non-Hispanic .....   | 554,731       | 84,865                       | 64,068          | 66,175          | 81,151          | 55,203          | 55,439          | 28,667          | 61,876               | 57,287        | ...                                   |
| Hispanic <sup>4</sup> .....   | 514,975       | 60,504                       | 57,889          | 65,119          | 78,687          | 55,720          | 51,051          | 25,475          | 45,344               | 75,186        | ...                                   |
| Under 37 weeks  |               |                              |                 |                 |                 |                 |                 |                 |                      |               |                                       |
| All races <sup>3</sup> .....  | 410,507       | 65,992                       | 49,643          | 52,953          | 59,966          | 41,302          | 37,517          | 19,307          | 38,516               | 45,311        | ...                                   |
| White, total .....  | 292,556       | 41,989                       | 33,878          | 38,728          | 44,137          | 31,735          | 28,422          | 14,949          | 29,166               | 29,552        | ...                                   |
| White, non-Hispanic .....   | 230,221       | 31,673                       | 25,968          | 31,015          | 35,788          | 26,280          | 23,398          | 12,541          | 24,681               | 18,877        | ...                                   |
| Black, total .....  | 100,218       | 21,345                       | 13,519          | 11,782          | 13,073          | 7,820           | 7,612           | 3,636           | 8,186                | 13,245        | ...                                   |
| Black, non-Hispanic .....   | 98,165        | 20,990                       | 13,263          | 11,527          | 12,786          | 7,654           | 7,437           | 3,561           | 8,021                | 12,926        | ...                                   |
| Hispanic <sup>4</sup> .....   | 60,691        | 10,153                       | 7,810           | 7,564           | 8,153           | 5,280           | 4,863           | 2,328           | 4,358                | 10,182        | ...                                   |
| 37-39 weeks   |               |                              |                 |                 |                 |                 |                 |                 |                      |               |                                       |
| All races <sup>3</sup> .....  | 1,662,072     | 174,748                      | 166,164         | 219,124         | 284,736         | 218,076         | 196,106         | 100,038         | 174,161              | 128,919       | ...                                   |
| White, total .....  | 1,313,147     | 128,635                      | 126,221         | 173,981         | 229,337         | 179,468         | 159,863         | 81,889          | 138,810              | 94,943        | ...                                   |
| White, non-Hispanic .....   | 1,057,509     | 99,663                       | 97,383          | 140,566         | 188,780         | 151,236         | 134,217         | 69,420          | 117,332              | 58,912        | ...                                   |
| Black, total .....  | 268,872       | 38,516                       | 31,067          | 33,367          | 40,874          | 28,188          | 27,767          | 14,191          | 29,548               | 25,354        | ...                                   |
| Black, non-Hispanic .....   | 261,595       | 37,664                       | 30,301          | 32,473          | 39,757          | 27,352          | 26,940          | 13,767          | 28,721               | 24,620        | ...                                   |
| Hispanic <sup>4</sup> .....   | 245,487       | 28,163                       | 28,144          | 32,308          | 38,817          | 27,045          | 24,588          | 11,960          | 20,768               | 33,694        | ...                                   |
| 40 weeks and over   |               |                              |                 |                 |                 |                 |                 |                 |                      |               |                                       |
| All races <sup>3</sup> .....  | 1,354,859     | 130,719                      | 122,117         | 164,195         | 224,142         | 180,121         | 170,934         | 90,517          | 166,743              | 105,371       | ...                                   |
| White, total .....  | 1,095,471     | 98,908                       | 95,134          | 133,286         | 184,373         | 151,312         | 142,003         | 75,406          | 135,409              | 79,640        | ...                                   |
| White, non-Hispanic .....   | 880,153       | 76,191                       | 72,762          | 107,220         | 151,363         | 126,898         | 119,464         | 63,766          | 114,378              | 48,111        | ...                                   |
| Black, total .....  | 199,168       | 26,485                       | 20,935          | 22,734          | 29,468          | 20,880          | 21,746          | 11,727          | 25,919               | 19,274        | ...                                   |
| Black, non-Hispanic .....   | 192,842       | 25,836                       | 20,367          | 22,033          | 28,474          | 20,129          | 20,981          | 11,305          | 25,041               | 18,676        | ...                                   |
| Hispanic <sup>4</sup> .....   | 205,967       | 21,985                       | 21,785          | 25,081          | 31,510          | 23,235          | 21,481          | 11,126          | 20,094               | 29,670        | ...                                   |
| Percent distribution  |               |                              |                 |                 |                 |                 |                 |                 |                      |               |                                       |
| All gestation periods <sup>2</sup>  |               |                              |                 |                 |                 |                 |                 |                 |                      |               |                                       |
| All races <sup>3</sup> .....  | 100.0         | 11.8                         | 10.7            | 13.9            | 18.1            | 14.0            | 12.8            | 6.7             | 12.0                 | ...           | 30.5                                  |
| White, total .....  | 100.0         | 10.8                         | 10.2            | 13.9            | 18.3            | 14.5            | 13.2            | 6.9             | 12.1                 | ...           | 30.7                                  |
| White, non-Hispanic .....   | 100.0         | 10.2                         | 9.6             | 13.7            | 18.4            | 14.9            | 13.6            | 7.1             | 12.6                 | ...           | 30.8                                  |
| Black, total .....  | 100.0         | 17.0                         | 12.8            | 13.3            | 16.3            | 11.1            | 11.2            | 5.8             | 12.5                 | ...           | 30.0                                  |
| Black, non-Hispanic .....   | 100.0         | 17.1                         | 12.9            | 13.3            | 16.3            | 11.1            | 11.1            | 5.8             | 12.4                 | ...           | 30.0                                  |
| Hispanic <sup>4</sup> .....   | 100.0         | 13.8                         | 13.2            | 14.8            | 17.9            | 12.7            | 11.6            | 5.8             | 10.3                 | ...           | 29.8                                  |
| Under 37 weeks  |               |                              |                 |                 |                 |                 |                 |                 |                      |               |                                       |
| All races <sup>3</sup> .....  | 100.0         | 18.1                         | 13.6            | 14.5            | 16.4            | 11.3            | 10.3            | 5.3             | 10.5                 | ...           | 27.9                                  |
| White, total .....  | 100.0         | 16.0                         | 12.9            | 14.7            | 16.8            | 12.1            | 10.8            | 5.7             | 11.1                 | ...           | 28.9                                  |
| White, non-Hispanic .....   | 100.0         | 15.0                         | 12.3            | 14.7            | 16.9            | 12.4            | 11.1            | 5.9             | 11.7                 | ...           | 30.0                                  |
| Black, total .....  | 100.0         | 24.5                         | 15.5            | 13.5            | 15.0            | 9.0             | 8.8             | 4.2             | 9.4                  | ...           | 25.4                                  |
| Black, non-Hispanic .....   | 100.0         | 24.6                         | 15.6            | 13.5            | 15.0            | 9.0             | 8.7             | 4.2             | 9.4                  | ...           | 25.4                                  |
| Hispanic <sup>4</sup> .....   | 100.0         | 20.1                         | 15.5            | 15.0            | 16.1            | 10.5            | 9.6             | 4.6             | 8.6                  | ...           | 25.9                                  |
| 37-39 weeks   |               |                              |                 |                 |                 |                 |                 |                 |                      |               |                                       |
| All races <sup>3</sup> .....  | 100.0         | 11.4                         | 10.8            | 14.3            | 18.6            | 14.2            | 12.8            | 6.5             | 11.4                 | ...           | 30.5                                  |
| White, total .....  | 100.0         | 10.6                         | 10.4            | 14.3            | 18.8            | 14.7            | 13.1            | 6.7             | 11.4                 | ...           | 30.6                                  |
| White, non-Hispanic .....   | 100.0         | 10.0                         | 9.8             | 14.1            | 18.9            | 15.1            | 13.4            | 7.0             | 11.7                 | ...           | 30.7                                  |
| Black, total .....  | 100.0         | 15.8                         | 12.8            | 13.7            | 16.8            | 11.6            | 11.4            | 5.8             | 12.1                 | ...           | 30.1                                  |
| Black, non-Hispanic .....   | 100.0         | 15.9                         | 12.8            | 13.7            | 16.8            | 11.5            | 11.4            | 5.8             | 12.1                 | ...           | 30.1                                  |
| Hispanic <sup>4</sup> .....   | 100.0         | 13.3                         | 13.3            | 15.3            | 18.3            | 12.8            | 11.6            | 5.6             | 9.8                  | ...           | 29.6                                  |
| 40 weeks and over   |               |                              |                 |                 |                 |                 |                 |                 |                      |               |                                       |
| All races <sup>3</sup> .....  | 100.0         | 10.5                         | 9.8             | 13.1            | 17.9            | 14.4            | 13.7            | 7.2             | 13.3                 | ...           | 30.9                                  |
| White, total .....  | 100.0         | 9.7                          | 9.4             | 13.1            | 18.1            | 14.9            | 14.0            | 7.4             | 13.3                 | ...           | 31.0                                  |
| White, non-Hispanic .....   | 100.0         | 9.2                          | 8.7             | 12.9            | 18.2            | 15.3            | 14.4            | 7.7             | 13.7                 | ...           | 31.6                                  |
| Black, total .....  | 100.0         | 14.7                         | 11.6            | 12.6            | 16.4            | 11.6            | 12.1            | 6.5             | 14.4                 | ...           | 30.4                                  |
| Black, non-Hispanic .....   | 100.0         | 14.8                         | 11.7            | 12.7            | 16.3            | 11.6            | 12.0            | 6.5             | 14.4                 | ...           | 30.4                                  |
| Hispanic <sup>4</sup> .....   | 100.0         | 12.5                         | 12.4            | 14.2            | 17.9            | 13.2            | 12.2            | 6.3             | 11.4                 | ...           | 30.3                                  |

... Category not applicable.

<sup>1</sup> Expressed in completed weeks.<sup>2</sup> Includes births with period of gestation not stated.<sup>3</sup> Includes races other than white and black and origin not stated.<sup>4</sup> Includes all persons of Hispanic origin of any race.

NOTE: Excludes data for California, which did not require reporting of weight gain during pregnancy.

**Table 23. Percent low birthweight by weight gain of mother during pregnancy, period of gestation, and race and Hispanic origin of mother: Total of 49 reporting States and the District of Columbia, 1999**

[Low birthweight is defined as weight of less than 2,500 grams (5 lb 8 oz)]

| Period of gestation <sup>1</sup><br>and race and Hispanic<br>origin of mother | Total | Weight gain during pregnancy |                 |                 |                 |                 |                 |                 |                      |               |
|---|-------|------------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------------|---------------|
|   |       | Less than<br>16 pounds       | 16-20<br>pounds | 21-25<br>pounds | 26-30<br>pounds | 31-35<br>pounds | 36-40<br>pounds | 41-45<br>pounds | 46 pounds<br>or more | Not<br>stated |
| All gestation periods <sup>2</sup>  |       |                              |                 |                 |                 |                 |                 |                 |                      |               |
| All races <sup>3</sup> .....  | 7.8   | 13.9                         | 10.6            | 8.0             | 6.4             | 5.4             | 5.2             | 5.2             | 5.5                  | 11.7          |
| White, total .....  | 6.7   | 11.7                         | 9.2             | 7.0             | 5.6             | 4.9             | 4.7             | 4.8             | 5.1                  | 9.9           |
| White, non-Hispanic .....   | 6.7   | 11.8                         | 9.5             | 7.1             | 5.6             | 4.9             | 4.7             | 4.8             | 5.2                  | 10.6          |
| Black, total .....  | 13.2  | 21.1                         | 16.4            | 12.9            | 10.9            | 9.2             | 8.4             | 7.9             | 7.6                  | 18.8          |
| Black, non-Hispanic .....   | 13.3  | 21.2                         | 16.5            | 13.1            | 11.0            | 9.3             | 8.5             | 8.0             | 7.7                  | 18.9          |
| Hispanic, total <sup>4</sup> .....  | 6.8   | 11.3                         | 8.3             | 6.6             | 5.5             | 4.8             | 4.6             | 4.4             | 4.5                  | 8.6           |
| Mexican <sup>4</sup> .....  | 6.3   | 10.2                         | 7.3             | 6.0             | 5.0             | 4.4             | 4.3             | 4.1             | 4.1                  | 7.7           |
| Puerto Rican <sup>4</sup> .....   | 9.4   | 16.0                         | 12.1            | 9.7             | 8.3             | 6.5             | 6.3             | 5.5             | 5.6                  | 15.1          |
| Cuban <sup>4</sup> .....  | 6.8   | 12.0                         | 10.8            | 7.7             | 6.3             | 5.9             | 4.5             | 4.1             | 4.7                  | 14.8          |
| Central and South American <sup>4</sup> .....                                 | 6.4   | 11.6                         | 8.4             | 6.1             | 5.2             | 4.7             | 4.5             | 4.5             | 4.5                  | 8.2           |
| Other and unknown Hispanic <sup>4</sup> .....                                 | 7.8   | 13.8                         | 10.7            | 7.6             | 6.1             | 5.5             | 4.8             | 4.4             | 4.8                  | 11.8          |
| Under 37 weeks  |       |                              |                 |                 |                 |                 |                 |                 |                      |               |
| All races <sup>3</sup> .....  | 43.9  | 56.7                         | 48.9            | 42.5            | 38.2            | 36.0            | 35.4            | 36.4            | 36.0                 | 53.0          |
| White, total .....  | 41.7  | 53.9                         | 46.9            | 40.8            | 36.5            | 34.9            | 34.8            | 35.5            | 35.9                 | 50.1          |
| White, non-Hispanic .....   | 42.9  | 55.9                         | 48.9            | 42.3            | 37.5            | 36.0            | 36.0            | 36.7            | 36.8                 | 54.3          |
| Black, total .....  | 50.8  | 62.7                         | 54.5            | 48.6            | 44.2            | 40.6            | 38.9            | 40.1            | 37.1                 | 60.5          |
| Black, non-Hispanic .....   | 50.9  | 62.8                         | 54.6            | 48.8            | 44.3            | 40.8            | 38.9            | 40.4            | 37.2                 | 60.7          |
| Hispanic <sup>4</sup> .....   | 36.8  | 47.7                         | 40.1            | 34.6            | 32.2            | 29.4            | 29.1            | 28.8            | 29.3                 | 41.5          |
| 37-39 weeks   |       |                              |                 |                 |                 |                 |                 |                 |                      |               |
| All races <sup>3</sup> .....  | 4.1   | 6.3                          | 5.4             | 4.3             | 3.7             | 3.2             | 3.1             | 3.1             | 3.2                  | 5.0           |
| White, total .....  | 3.5   | 5.3                          | 4.7             | 3.8             | 3.2             | 2.8             | 2.7             | 2.7             | 2.8                  | 4.1           |
| White, non-Hispanic .....   | 3.5   | 5.3                          | 4.7             | 3.8             | 3.2             | 2.7             | 2.7             | 2.7             | 2.8                  | 4.0           |
| Black, total .....  | 6.8   | 9.6                          | 8.3             | 7.0             | 6.2             | 5.6             | 5.0             | 4.9             | 4.7                  | 8.3           |
| Black, non-Hispanic .....   | 6.8   | 9.7                          | 8.4             | 7.0             | 6.2             | 5.6             | 5.1             | 4.9             | 4.7                  | 8.3           |
| Hispanic <sup>4</sup> .....   | 3.8   | 5.3                          | 4.5             | 3.9             | 3.4             | 3.2             | 3.0             | 2.9             | 2.8                  | 4.3           |
| 40 weeks and over   |       |                              |                 |                 |                 |                 |                 |                 |                      |               |
| All races <sup>3</sup> .....  | 1.5   | 2.6                          | 2.2             | 1.7             | 1.3             | 1.1             | 1.0             | 1.0             | 0.9                  | 2.1           |
| White, total .....  | 1.2   | 2.1                          | 1.9             | 1.4             | 1.1             | 1.0             | 0.8             | 0.8             | 0.8                  | 1.7           |
| White, non-Hispanic .....   | 1.2   | 2.1                          | 1.9             | 1.4             | 1.1             | 0.9             | 0.8             | 0.8             | 0.8                  | 1.5           |
| Black, total .....  | 2.9   | 4.6                          | 3.7             | 3.2             | 2.7             | 2.3             | 2.0             | 1.6             | 1.7                  | 4.0           |
| Black, non-Hispanic .....   | 3.0   | 4.6                          | 3.8             | 3.2             | 2.7             | 2.4             | 2.1             | 1.7             | 1.7                  | 4.0           |
| Hispanic <sup>4</sup> .....   | 1.5   | 2.2                          | 1.7             | 1.6             | 1.3             | 1.1             | 0.9             | 0.8             | 1.0                  | 2.0           |

<sup>1</sup> Expressed in completed weeks.<sup>2</sup> Includes births with period of gestation not stated.<sup>3</sup> Includes races other than white and black and origin not stated.<sup>4</sup> Includes all persons of Hispanic origin of any race.

NOTE: Excludes data for California, which did not require reporting of weight gain during pregnancy.

**Table 24. Percent of births with selected medical or health characteristics, by detailed race of mother, by place of birth of mother: United States, 1999**

| Characteristic   | All races | White | Black | American Indian <sup>1</sup> | Asian or Pacific Islander |         |          |          |          |       |
|--|-----------|-------|-------|------------------------------|---------------------------|---------|----------|----------|----------|-------|
|  |           |       |       |                              | Total                     | Chinese | Japanese | Hawaiian | Filipino | Other |
| <b>All Births</b>  |           |       |       |                              |                           |         |          |          |          |       |
| <b>Mother</b>  |           |       |       |                              |                           |         |          |          |          |       |
| Prenatal care beginning in the first trimester .....         | 83.2      | 85.1  | 74.1  | 69.5                         | 83.7                      | 88.5    | 90.7     | 79.6     | 84.2     | 81.8  |
| Late or no prenatal care .....                               | 3.8       | 3.2   | 6.6   | 8.2                          | 3.5                       | 2.0     | 2.1      | 4.0      | 2.8      | 4.1   |
| Smoker <sup>2</sup> .....                                    | 12.6      | 13.6  | 9.3   | 20.2                         | 2.9                       | 0.5     | 4.5      | 14.7     | 3.3      | 2.3   |
| Drinker <sup>3</sup> .....                                   | 1.0       | 1.0   | 1.2   | 3.5                          | 0.3                       | 0.2     | 1.0      | 0.8      | 0.2      | 0.3   |
| Weight gain of less than 16 lbs <sup>4</sup> .....           | 11.8      | 10.8  | 17.0  | 15.9                         | 9.7                       | 6.5     | 10.8     | 9.6      | 8.3      | 10.6  |
| Median weight gain <sup>4</sup> .....                        | 30.5      | 30.7  | 30.0  | 30.1                         | 30.1                      | 30.4    | 26.3     | 30.9     | 30.5     | 30.0  |
| Cesarean delivery rate .....                                 | 22.0      | 21.9  | 23.2  | 18.9                         | 20.2                      | 20.3    | 16.5     | 14.3     | 23.6     | 19.8  |
| <b>Infant</b>  |           |       |       |                              |                           |         |          |          |          |       |
| Preterm births <sup>5</sup> .....                            | 11.8      | 10.7  | 17.5  | 12.9                         | 10.4                      | 7.6     | 9.3      | 12.3     | 12.4     | 10.7  |
| <b>Birthweight</b>   |           |       |       |                              |                           |         |          |          |          |       |
| Very low birthweight <sup>6</sup> .....                      | 1.5       | 1.2   | 3.1   | 1.3                          | 1.1                       | 0.7     | 0.9      | 1.4      | 1.4      | 1.1   |
| Low birthweight <sup>7</sup> .....                           | 7.6       | 6.6   | 13.1  | 7.1                          | 7.4                       | 5.2     | 7.9      | 7.7      | 8.3      | 7.8   |
| 4,000 grams or more <sup>8</sup> .....                       | 9.9       | 11.0  | 5.4   | 12.2                         | 5.8                       | 6.7     | 4.8      | 8.5      | 6.1      | 5.5   |
| 5-minute Apgar score of less than 7 <sup>9</sup> ..          | 1.4       | 1.2   | 2.4   | 1.5                          | 1.0                       | 0.6     | 1.2      | 2.0      | 1.1      | 1.0   |
| <b>Births to mothers born in the 50 States and D.C.</b>      |           |       |       |                              |                           |         |          |          |          |       |
| <b>Mother</b>  |           |       |       |                              |                           |         |          |          |          |       |
| Prenatal care beginning in the first trimester .....         | 84.7      | 87.2  | 73.9  | 69.5                         | 82.5                      | 91.3    | 92.6     | 79.8     | 82.3     | 78.7  |
| Late or no prenatal care .....                               | 3.3       | 2.5   | 6.6   | 8.2                          | 3.4                       | 1.5     | 1.6      | 3.8      | 3.2      | 4.4   |
| Smoker <sup>2</sup> .....                                    | 14.6      | 15.5  | 10.3  | 20.9                         | 9.4                       | 3.4     | 6.3      | 14.8     | 7.9      | 8.4   |
| Drinker <sup>3</sup> .....                                   | 1.1       | 1.0   | 1.3   | 3.6                          | 0.7                       | *       | *        | 0.8      | *        | 0.8   |
| Weight gain of less than 16 lbs <sup>4</sup> .....           | 11.7      | 10.4  | 17.3  | 16.0                         | 8.7                       | 7.2     | 10.1     | 9.5      | 8.1      | 8.3   |
| Median weight gain <sup>4</sup> .....                        | 30.6      | 30.8  | 30.0  | 30.1                         | 30.6                      | 30.4    | 27.9     | 30.9     | 30.8     | 30.8  |
| Cesarean delivery rate .....                                 | 22.1      | 22.1  | 22.9  | 18.9                         | 16.9                      | 17.2    | 18.4     | 14.4     | 17.5     | 17.5  |
| <b>Infant</b>  |           |       |       |                              |                           |         |          |          |          |       |
| Preterm births <sup>5</sup> .....                            | 12.0      | 10.7  | 17.9  | 12.8                         | 11.7                      | 9.7     | 10.6     | 12.3     | 12.7     | 11.8  |
| <b>Birthweight</b>   |           |       |       |                              |                           |         |          |          |          |       |
| Very low birthweight <sup>6</sup> .....                      | 1.5       | 1.2   | 3.2   | 1.3                          | 1.3                       | 0.9     | 0.9      | 1.4      | 1.6      | 1.3   |
| Low birthweight <sup>7</sup> .....                           | 7.9       | 6.7   | 13.5  | 7.1                          | 8.2                       | 7.0     | 8.2      | 7.7      | 8.9      | 8.4   |
| 4,000 grams or more <sup>8</sup> .....                       | 10.2      | 11.2  | 5.0   | 12.4                         | 7.1                       | 6.7     | 5.9      | 8.5      | 6.0      | 7.5   |
| 5-minute Apgar score of less than 7 <sup>9</sup> ..          | 1.5       | 1.2   | 2.5   | 1.5                          | 1.5                       | *       | 1.5      | 2.0      | 1.3      | 1.4   |
| <b>Births to mothers born outside the 50 States and D.C.</b> |           |       |       |                              |                           |         |          |          |          |       |
| <b>Mother</b>  |           |       |       |                              |                           |         |          |          |          |       |
| Prenatal care beginning in the first trimester .....         | 77.1      | 75.5  | 76.0  | 70.0                         | 83.9                      | 88.3    | 89.4     | 71.0     | 84.7     | 82.2  |
| Late or no prenatal care .....                               | 5.8       | 6.3   | 6.6   | 9.2                          | 3.5                       | 2.1     | 2.5      | *        | 2.7      | 4.1   |
| Smoker <sup>2</sup> .....                                    | 2.3       | 2.7   | 1.5   | 4.8                          | 1.5                       | 0.3     | 3.2      | *        | 2.1      | 1.6   |
| Drinker <sup>3</sup> .....                                   | 0.4       | 0.5   | 0.4   | *                            | 0.2                       | 0.1     | 1.4      | *        | 0.2      | 0.2   |
| Weight gain of less than 16 lbs <sup>4</sup> .....           | 12.6      | 13.1  | 13.8  | 13.3                         | 9.9                       | 6.4     | 11.2     | *        | 8.3      | 10.9  |
| Median weight gain <sup>4</sup> .....                        | 29.7      | 29.5  | 30.0  | 29.4                         | 30.0                      | 30.4    | 25.8     | 30.4     | 30.4     | 29.5  |
| Cesarean delivery rate .....                                 | 21.4      | 21.0  | 25.5  | 19.4                         | 20.8                      | 20.7    | 15.2     | *        | 25.1     | 20.1  |
| <b>Infant</b>  |           |       |       |                              |                           |         |          |          |          |       |
| Preterm births <sup>5</sup> .....                            | 10.8      | 10.5  | 13.9  | 13.3                         | 10.2                      | 7.3     | 8.4      | *        | 12.3     | 10.5  |
| <b>Birthweight</b>   |           |       |       |                              |                           |         |          |          |          |       |
| Very low birthweight <sup>6</sup> .....                      | 1.1       | 1.0   | 2.4   | 1.0                          | 1.0                       | 0.6     | 0.8      | *        | 1.4      | 1.0   |
| Low birthweight <sup>7</sup> .....                           | 6.4       | 5.8   | 9.6   | 7.9                          | 7.3                       | 5.0     | 7.8      | *        | 8.1      | 7.7   |
| 4,000 grams or more <sup>8</sup> .....                       | 9.1       | 10.0  | 8.6   | 7.2                          | 5.6                       | 6.7     | 4.1      | *        | 6.1      | 5.2   |
| 5-minute Apgar score of less than 7 <sup>9</sup> ..          | 1.1       | 1.0   | 1.8   | *                            | 0.9                       | 0.6     | 1.0      | *        | 1.1      | 1.0   |

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.

<sup>1</sup> Includes births to Aleuts and Eskimos.<sup>2</sup> Excludes data for California and South Dakota, which did not report tobacco use on the birth certificate.<sup>3</sup> Excludes data for California and South Dakota, which did not report alcohol use on the birth certificate.<sup>4</sup> Excludes data for California, which did not report weight gain on the birth certificate. Median weight shown in pounds.<sup>5</sup> Born prior to 37 completed weeks of gestation.<sup>6</sup> Birthweight of less than 1,500 grams (3 lb 4 oz).<sup>7</sup> Birthweight of less than 2,500 grams (5 lb 8 oz).<sup>8</sup> Equivalent to 8 lb 14 oz.<sup>9</sup> Excludes data for California and Texas, which did not report 5-minute Apgar score on the birth certificate.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

**Table 25. Percent of births with selected medical or health characteristics, by Hispanic origin of mother and by race for mothers of non-Hispanic origin and by place of birth of mother: United States, 1999**

| Characteristic   | Origin of mother         |          |         |              |       |                            |                            |                    |       |       |
|--|--------------------------|----------|---------|--------------|-------|----------------------------|----------------------------|--------------------|-------|-------|
|  | All origins <sup>1</sup> | Hispanic |         |              |       |                            |                            | Non-Hispanic       |       |       |
|  |                          | Total    | Mexican | Puerto Rican | Cuban | Central and South American | Other and unknown Hispanic | Total <sup>2</sup> | White | Black |
| <b>All Births</b>  |                          |          |         |              |       |                            |                            |                    |       |       |
| <b>Mother</b>  |                          |          |         |              |       |                            |                            |                    |       |       |
| Prenatal care beginning in the first trimester .....         | 83.2                     | 74.4     | 73.1    | 77.7         | 91.4  | 77.6                       | 74.8                       | 85.3               | 88.4  | 74.1  |
| Late or no prenatal care .....                               | 3.8                      | 6.3      | 6.7     | 5.0          | 1.4   | 5.2                        | 6.3                        | 3.2                | 2.3   | 6.6   |
| Smoker <sup>3</sup> .....                                    | 12.6                     | 3.7      | 2.6     | 10.5         | 3.3   | 1.4                        | 7.7                        | 14.1               | 15.9  | 9.4   |
| Drinker <sup>4</sup> .....                                   | 1.0                      | 0.6      | 0.5     | 0.8          | 0.3   | 0.3                        | 1.3                        | 1.1                | 1.0   | 1.2   |
| Weight gain of less than 16 lbs <sup>5</sup> .....           | 11.8                     | 13.8     | 15.0    | 12.8         | 7.1   | 12.0                       | 12.0                       | 11.5               | 10.2  | 17.1  |
| Median weight gain <sup>5</sup> .....                        | 30.5                     | 29.8     | 28.5    | 30.5         | 32.3  | 30.2                       | 30.3                       | 30.6               | 30.8  | 30.0  |
| Cesarean delivery rate .....                                 | 22.0                     | 21.2     | 20.6    | 21.5         | 33.2  | 23.1                       | 20.5                       | 22.2               | 22.1  | 23.2  |
| <b>Infant</b>  |                          |          |         |              |       |                            |                            |                    |       |       |
| Preterm births <sup>6</sup> .....                            | 11.8                     | 11.4     | 11.1    | 13.7         | 11.5  | 11.4                       | 11.9                       | 11.9               | 10.5  | 17.6  |
| <b>Birthweight</b>   |                          |          |         |              |       |                            |                            |                    |       |       |
| Very low birthweight <sup>7</sup> .....                      | 1.5                      | 1.1      | 1.0     | 1.9          | 1.5   | 1.1                        | 1.3                        | 1.5                | 1.2   | 3.2   |
| Low birthweight <sup>8</sup> .....                           | 7.6                      | 6.4      | 5.9     | 9.3          | 6.8   | 6.4                        | 7.6                        | 7.9                | 6.6   | 13.2  |
| 4,000 grams or more <sup>9</sup> .....                       | 9.9                      | 9.0      | 9.4     | 6.9          | 9.6   | 9.1                        | 7.6                        | 10.1               | 11.6  | 5.3   |
| 5-minute Apgar score of less than 7 <sup>10</sup> ...        | 1.4                      | 1.1      | 1.2     | 1.3          | 0.7   | 0.9                        | 1.1                        | 1.5                | 1.2   | 2.4   |
| <b>Births to mothers born in the 50 States and D.C.</b>      |                          |          |         |              |       |                            |                            |                    |       |       |
| <b>Mother</b>  |                          |          |         |              |       |                            |                            |                    |       |       |
| Prenatal care beginning in the first trimester .....         | 84.7                     | 77.0     | 76.6    | 77.6         | 91.2  | 82.4                       | 75.1                       | 85.6               | 88.5  | 73.9  |
| Late or no prenatal care .....                               | 3.3                      | 5.0      | 5.0     | 5.0          | 1.5   | 3.4                        | 6.1                        | 3.1                | 2.2   | 6.6   |
| Smoker <sup>3</sup> .....                                    | 14.6                     | 7.0      | 5.2     | 11.9         | 4.7   | 4.8                        | 9.7                        | 15.2               | 16.4  | 10.2  |
| Drinker <sup>4</sup> .....                                   | 1.1                      | 1.0      | 0.9     | 0.9          | 0.5   | 0.7                        | 1.6                        | 1.1                | 1.0   | 1.3   |
| Weight gain of less than 16 lbs <sup>5</sup> .....           | 11.7                     | 12.6     | 13.2    | 12.1         | 7.4   | 9.4                        | 12.3                       | 11.6               | 10.2  | 17.4  |
| Median weight gain <sup>5</sup> .....                        | 30.6                     | 29.8     | 28.5    | 30.5         | 32.3  | 30.2                       | 30.3                       | 30.6               | 30.8  | 30.0  |
| Cesarean delivery rate .....                                 | 22.1                     | 21.2     | 21.1    | 21.2         | 28.3  | 21.4                       | 20.1                       | 22.2               | 22.2  | 22.9  |
| <b>Infant</b>  |                          |          |         |              |       |                            |                            |                    |       |       |
| Preterm births <sup>6</sup> .....                            | 12.0                     | 12.3     | 12.1    | 13.8         | 11.1  | 11.1                       | 12.4                       | 12.0               | 10.6  | 18.0  |
| <b>Birthweight</b>   |                          |          |         |              |       |                            |                            |                    |       |       |
| Very low birthweight <sup>7</sup> .....                      | 1.5                      | 1.3      | 1.2     | 1.9          | 1.8   | 1.5                        | 1.4                        | 1.5                | 1.2   | 3.2   |
| Low birthweight <sup>8</sup> .....                           | 7.9                      | 7.2      | 6.7     | 9.4          | 6.8   | 7.1                        | 8.2                        | 8.0                | 6.7   | 13.6  |
| 4,000 grams or more <sup>9</sup> .....                       | 10.2                     | 8.1      | 8.4     | 7.1          | 8.7   | 8.7                        | 7.1                        | 10.4               | 11.6  | 5.0   |
| 5-minute Apgar score of less than 7 <sup>10</sup> ...        | 1.5                      | 1.2      | 1.2     | 1.3          | 0.6   | 1.1                        | 1.2                        | 1.5                | 1.2   | 2.5   |
| <b>Births to mothers born outside the 50 States and D.C.</b> |                          |          |         |              |       |                            |                            |                    |       |       |
| <b>Mother</b>  |                          |          |         |              |       |                            |                            |                    |       |       |
| Prenatal care beginning in the first trimester .....         | 77.1                     | 72.8     | 70.8    | 78.0         | 91.6  | 77.1                       | 74.8                       | 83.2               | 85.5  | 76.3  |
| Late or no prenatal care .....                               | 5.8                      | 7.1      | 7.8     | 4.9          | 1.3   | 5.4                        | 6.4                        | 4.0                | 3.6   | 6.5   |
| Smoker <sup>3</sup> .....                                    | 2.3                      | 1.5      | 0.9     | 7.8          | 2.4   | 1.1                        | 2.1                        | 3.3                | 6.2   | 1.4   |
| Drinker <sup>4</sup> .....                                   | 0.4                      | 0.3      | 0.3     | 0.8          | *     | 0.3                        | 0.4                        | 0.6                | 1.0   | 0.3   |
| Weight gain of less than 16 lbs <sup>5</sup> .....           | 12.6                     | 14.6     | 16.3    | 14.0         | 6.8   | 12.3                       | 11.3                       | 10.3               | 8.7   | 14.2  |
| Median weight gain <sup>5</sup> .....                        | 29.7                     | 28.3     | 26.6    | 30.2         | 32.1  | 30.1                       | 30.2                       | 30.3               | 30.7  | 29.7  |
| Cesarean delivery rate .....                                 | 21.4                     | 21.2     | 20.2    | 22.1         | 36.6  | 23.3                       | 22.0                       | 21.6               | 20.7  | 25.4  |
| <b>Infant</b>  |                          |          |         |              |       |                            |                            |                    |       |       |
| Preterm births <sup>6</sup> .....                            | 10.8                     | 10.9     | 10.5    | 13.5         | 11.7  | 11.5                       | 10.1                       | 10.6               | 9.3   | 14.2  |
| <b>Birthweight</b>   |                          |          |         |              |       |                            |                            |                    |       |       |
| Very low birthweight <sup>7</sup> .....                      | 1.1                      | 1.0      | 0.9     | 1.7          | 1.3   | 1.1                        | 1.0                        | 1.3                | 1.0   | 2.6   |
| Low birthweight <sup>8</sup> .....                           | 6.4                      | 5.8      | 5.4     | 9.1          | 6.8   | 6.3                        | 5.5                        | 7.3                | 6.0   | 9.9   |
| 4,000 grams or more <sup>9</sup> .....                       | 9.1                      | 9.7      | 10.0    | 6.6          | 10.3  | 9.2                        | 9.0                        | 8.3                | 11.4  | 8.5   |
| 5-minute Apgar score of less than 7 <sup>10</sup> ...        | 1.1                      | 1.1      | 1.2     | 1.3          | 0.7   | 0.9                        | 0.9                        | 1.1                | 0.9   | 1.9   |

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator or denominator.

<sup>1</sup> Includes origin not stated.<sup>2</sup> Includes races other than white and black.<sup>3</sup> Excludes data for California and South Dakota, which did not report tobacco use on the birth certificate.<sup>4</sup> Excludes data for California and South Dakota, which did not report alcohol use on the birth certificate.<sup>5</sup> Excludes data for California, which did not report weight gain on the birth certificate. Median weight gain shown in pounds.<sup>6</sup> Born prior to 37 completed weeks of gestation.<sup>7</sup> Birthweight of less than 1,500 grams (3 lb 4 oz).<sup>8</sup> Birthweight of less than 2,500 grams (5 lb 8 oz).<sup>9</sup> Equivalent to 8 lb 14 oz.<sup>10</sup> Excludes data for California and Texas, which did not report 5-minute Apgar score on the birth certificate.

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.

**Table 26. Live births to mothers with selected medical risk factors and rates by age of mother, by race of mother: United States, 1999**

[Rates are number of live births with specified medical risk factor per 1,000 live births in specified group]

| Medical risk factor and race of mother                     | All births <sup>1</sup> | Medical risk factor reported | Age of mother |                |             |             |             |             |             | Not stated <sup>2</sup> |
|--|-------------------------|------------------------------|---------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
|  |                         |                              | All ages      | Under 20 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-54 years |                         |
| <b>All races<sup>3</sup></b>                               |                         |                              |               |                |             |             |             |             |             |                         |
| Anemia .....   | 3,959,417               | 90,322                       | 23.2          | 33.1           | 28.3        | 20.9        | 18.0        | 18.0        | 18.2        | 63,752                  |
| Cardiac disease .....                                      | 3,959,417               | 20,189                       | 5.2           | 2.8            | 3.5         | 5.0         | 6.7         | 8.0         | 9.7         | 63,752                  |
| Acute or chronic lung disease .....                        | 3,959,417               | 43,117                       | 11.1          | 13.8           | 12.0        | 10.2        | 9.9         | 10.2        | 12.0        | 63,752                  |
| Diabetes .....   | 3,959,417               | 106,413                      | 27.3          | 8.3            | 16.3        | 26.9        | 36.1        | 49.0        | 64.8        | 63,752                  |
| Genital herpes <sup>4</sup> .....                          | 3,610,172               | 33,636                       | 9.5           | 6.3            | 8.2         | 9.1         | 11.2        | 12.4        | 13.2        | 61,402                  |
| Hydramnios/Oligohydramnios .....                           | 3,959,417               | 52,704                       | 13.5          | 14.7           | 13.8        | 12.9        | 12.7        | 14.1        | 17.5        | 63,752                  |
| Hemoglobinopathy .....                                     | 3,959,417               | 3,165                        | 0.8           | 1.0            | 1.0         | 0.7         | 0.7         | 0.7         | 0.9         | 63,752                  |
| Hypertension, chronic .....                                | 3,959,417               | 27,912                       | 7.2           | 2.5            | 4.3         | 6.5         | 8.7         | 14.0        | 24.5        | 63,752                  |
| Hypertension, pregnancy-associated .....                   | 3,959,417               | 148,837                      | 38.2          | 43.3           | 38.4        | 37.8        | 34.9        | 38.1        | 47.7        | 63,752                  |
| Eclampsia .....  | 3,959,417               | 11,993                       | 3.1           | 4.4            | 3.2         | 2.8         | 2.6         | 2.9         | 4.0         | 63,752                  |
| Incompetent cervix .....                                   | 3,959,417               | 11,344                       | 2.9           | 1.3            | 2.1         | 2.8         | 3.7         | 4.7         | 5.0         | 63,752                  |
| Previous infant 4000+ grams .....                          | 3,959,417               | 42,610                       | 10.9          | 1.3            | 6.2         | 11.7        | 15.6        | 18.9        | 21.5        | 63,752                  |
| Previous preterm or small-for-gestational-age infant ..... | 3,959,417               | 47,311                       | 12.1          | 4.9            | 12.2        | 12.7        | 13.2        | 15.6        | 16.2        | 63,752                  |
| Renal disease .....  | 3,959,417               | 11,038                       | 2.8           | 2.8            | 3.1         | 2.9         | 2.7         | 2.5         | 2.4         | 63,752                  |
| Rh sensitization <sup>5</sup> .....                        | 3,920,635               | 25,448                       | 6.6           | 5.5            | 6.1         | 6.9         | 7.1         | 7.3         | 7.0         | 65,468                  |
| Uterine bleeding <sup>4</sup> .....                        | 3,610,172               | 22,332                       | 6.3           | 4.4            | 5.5         | 6.3         | 7.1         | 7.7         | 9.3         | 61,402                  |
| <b>White</b>   |                         |                              |               |                |             |             |             |             |             |                         |
| Anemia .....   | 3,132,501               | 62,826                       | 20.4          | 29.3           | 24.3        | 18.7        | 16.5        | 16.5        | 16.4        | 48,976                  |
| Cardiac disease .....                                      | 3,132,501               | 17,004                       | 5.5           | 2.8            | 3.6         | 5.2         | 7.2         | 8.5         | 10.4        | 48,976                  |
| Acute or chronic lung disease .....                        | 3,132,501               | 32,523                       | 10.5          | 12.5           | 11.1        | 9.9         | 9.8         | 10.2        | 12.1        | 48,976                  |
| Diabetes .....   | 3,132,501               | 81,524                       | 26.4          | 8.5            | 16.2        | 25.9        | 33.5        | 45.3        | 59.6        | 48,976                  |
| Genital herpes <sup>4</sup> .....                          | 2,834,420               | 26,317                       | 9.4           | 5.5            | 7.3         | 8.7         | 11.7        | 13.4        | 14.7        | 47,006                  |
| Hydramnios/Oligohydramnios .....                           | 3,132,501               | 39,850                       | 12.9          | 14.1           | 13.2        | 12.3        | 12.2        | 13.4        | 16.8        | 48,976                  |
| Hemoglobinopathy .....                                     | 3,132,501               | 1,109                        | 0.4           | 0.3            | 0.3         | 0.4         | 0.4         | 0.4         | 0.4         | 48,976                  |
| Hypertension, chronic .....                                | 3,132,501               | 19,139                       | 6.2           | 2.1            | 3.8         | 5.7         | 7.4         | 11.3        | 19.2        | 48,976                  |
| Hypertension, pregnancy-associated .....                   | 3,132,501               | 119,203                      | 38.7          | 42.8           | 39.5        | 39.0        | 35.2        | 37.8        | 46.8        | 48,976                  |
| Eclampsia .....  | 3,132,501               | 8,909                        | 2.9           | 4.0            | 3.0         | 2.7         | 2.5         | 2.8         | 3.6         | 48,976                  |
| Incompetent cervix .....                                   | 3,132,501               | 7,860                        | 2.5           | 1.2            | 1.7         | 2.4         | 3.2         | 4.3         | 4.8         | 48,976                  |
| Previous infant 4000+ grams .....                          | 3,132,501               | 38,000                       | 12.3          | 1.4            | 6.9         | 12.8        | 17.1        | 20.8        | 24.1        | 48,976                  |
| Previous preterm or small-for-gestational-age infant ..... | 3,132,501               | 36,306                       | 11.8          | 4.6            | 11.5        | 12.1        | 12.9        | 15.2        | 15.9        | 48,976                  |
| Renal disease .....  | 3,132,501               | 9,338                        | 3.0           | 3.2            | 3.3         | 3.1         | 2.9         | 2.6         | 2.5         | 48,976                  |
| Rh sensitization <sup>5</sup> .....                        | 3,097,890               | 23,064                       | 7.6           | 6.6            | 7.0         | 7.7         | 8.0         | 8.2         | 7.9         | 50,467                  |
| Uterine bleeding <sup>4</sup> .....                        | 2,834,420               | 18,418                       | 6.6           | 4.7            | 5.8         | 6.6         | 7.4         | 8.0         | 9.5         | 47,006                  |
| <b>Black</b>   |                         |                              |               |                |             |             |             |             |             |                         |
| Anemia .....   | 605,970                 | 22,134                       | 37.0          | 41.6           | 41.8        | 33.7        | 30.0        | 29.7        | 28.4        | 7,075                   |
| Cardiac disease .....                                      | 605,970                 | 2,508                        | 4.2           | 2.7            | 3.6         | 4.4         | 5.4         | 7.0         | 6.7         | 7,075                   |
| Acute or chronic lung disease .....                        | 605,970                 | 9,101                        | 15.2          | 17.7           | 16.1        | 14.1        | 12.8        | 13.0        | 14.1        | 7,075                   |
| Diabetes .....   | 605,970                 | 15,326                       | 25.6          | 7.2            | 15.3        | 28.6        | 44.2        | 60.3        | 77.7        | 7,075                   |
| Genital herpes <sup>4</sup> .....                          | 565,873                 | 6,334                        | 11.3          | 8.5            | 12.0        | 13.3        | 12.1        | 9.8         | 8.6         | 6,825                   |
| Hydramnios/Oligohydramnios .....                           | 605,970                 | 10,126                       | 16.9          | 16.6           | 16.0        | 16.7        | 17.2        | 19.8        | 24.3        | 7,075                   |
| Hemoglobinopathy .....                                     | 605,970                 | 1,906                        | 3.2           | 3.0            | 3.5         | 2.9         | 3.0         | 3.1         | 4.1         | 7,075                   |
| Hypertension, chronic .....                                | 605,970                 | 7,727                        | 12.9          | 3.6            | 6.4         | 12.7        | 21.4        | 37.6        | 64.1        | 7,075                   |
| Hypertension, pregnancy-associated .....                   | 605,970                 | 24,229                       | 40.5          | 45.0           | 36.5        | 37.2        | 41.8        | 47.9        | 59.4        | 7,075                   |
| Eclampsia .....  | 605,970                 | 2,518                        | 4.2           | 5.3            | 3.7         | 4.0         | 3.9         | 4.4         | 5.9         | 7,075                   |
| Incompetent cervix .....                                   | 605,970                 | 3,060                        | 5.1           | 1.7            | 3.9         | 6.1         | 8.5         | 9.2         | 7.3         | 7,075                   |
| Previous infant 4000+ grams .....                          | 605,970                 | 2,892                        | 4.8           | 0.8            | 3.4         | 6.4         | 7.9         | 9.8         | 8.7         | 7,075                   |
| Previous preterm or small-for-gestational-age infant ..... | 605,970                 | 8,895                        | 14.9          | 5.9            | 15.0        | 18.2        | 18.0        | 20.6        | 20.5        | 7,075                   |
| Renal disease .....  | 605,970                 | 1,299                        | 2.2           | 1.9            | 2.5         | 2.1         | 1.9         | 2.3         | 2.1         | 7,075                   |
| Rh sensitization <sup>5</sup> .....                        | 603,115                 | 1,977                        | 3.3           | 2.8            | 3.4         | 3.5         | 3.4         | 3.4         | 4.4         | 7,266                   |
| Uterine bleeding <sup>4</sup> .....                        | 565,873                 | 2,659                        | 4.8           | 3.6            | 4.4         | 5.1         | 5.5         | 6.4         | 7.1         | 6,825                   |

<sup>1</sup> Total number of births to residents of areas reporting specified medical risk factor.<sup>2</sup> No response reported for the medical risk factor item.<sup>3</sup> Includes races other than white and black.<sup>4</sup> Texas does not report this risk factor.<sup>5</sup> Kansas does not report this risk factor.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

**Table 27. Number and rate of live births to mothers with selected medical risk factors, complications of labor, and obstetric procedures, by detailed race of mother: United States, 1999**

[Rates are number of live births with specified risk factors, complications, or procedures per 1,000 live births in specified group]

| Medical risk factor,<br>complication, and<br>obstetric procedure | All races | White     | Black   | American<br>Indian <sup>1</sup> | Asian or Pacific Islander |         |          |          |          |        |
|--|-----------|-----------|---------|---------------------------------|---------------------------|---------|----------|----------|----------|--------|
|  |           |           |         |                                 | Total                     | Chinese | Japanese | Hawaiian | Filipino | Other  |
| Number   |           |           |         |                                 |                           |         |          |          |          |        |
| Medical risk factors   |           |           |         |                                 |                           |         |          |          |          |        |
| Anemia .....   | 90,322    | 62,826    | 22,134  | 2,063                           | 3,299                     | 286     | 159      | 213      | 475      | 2,166  |
| Diabetes .....   | 106,413   | 81,524    | 15,326  | 1,878                           | 7,685                     | 1,275   | 244      | 147      | 1,467    | 4,552  |
| Hypertension, pregnancy-associated .....                         | 148,837   | 119,203   | 24,229  | 1,877                           | 3,528                     | 347     | 174      | 205      | 893      | 1,909  |
| Uterine bleeding <sup>2</sup> .....                              | 22,332    | 18,418    | 2,659   | 303                             | 952                       | 137     | 66       | 51       | 163      | 535    |
| Complications of labor and/or delivery                           |           |           |         |                                 |                           |         |          |          |          |        |
| Meconium, moderate/heavy .....                                   | 213,698   | 156,049   | 45,488  | 2,213                           | 9,948                     | 1,471   | 307      | 324      | 1,953    | 5,893  |
| Premature rupture of membrane .....                              | 100,130   | 75,850    | 18,460  | 1,492                           | 4,328                     | 633     | 255      | 168      | 745      | 2,527  |
| Dysfunctional labor .....  | 105,795   | 84,394    | 15,292  | 1,393                           | 4,716                     | 877     | 214      | 153      | 779      | 2,693  |
| Breech/Malpresentation .....                                     | 152,084   | 126,242   | 18,256  | 1,411                           | 6,175                     | 1,079   | 332      | 191      | 1,017    | 3,556  |
| Cephalopelvic disproportion .....                                | 71,604    | 58,220    | 8,644   | 640                             | 4,100                     | 661     | 162      | 88       | 847      | 2,342  |
| Fetal distress <sup>3</sup> .....                                | 140,756   | 105,319   | 28,085  | 1,414                           | 5,938                     | 880     | 194      | 129      | 997      | 3,738  |
| Obstetric procedures   |           |           |         |                                 |                           |         |          |          |          |        |
| Amniocentesis .....  | 103,874   | 87,511    | 9,296   | 669                             | 6,398                     | 1,862   | 614      | 161      | 929      | 2,832  |
| Electronic fetal monitoring .....                                | 3,296,037 | 2,614,055 | 508,057 | 32,248                          | 141,677                   | 22,609  | 6,529    | 4,213    | 23,533   | 84,793 |
| Induction of labor .....   | 775,245   | 648,095   | 95,500  | 7,730                           | 23,920                    | 3,531   | 1,190    | 777      | 3,584    | 14,838 |
| Ultrasound .....   | 2,579,276 | 2,081,638 | 362,419 | 23,781                          | 111,438                   | 19,116  | 5,333    | 3,022    | 18,569   | 65,398 |
| Stimulation of labor .....                                       | 702,784   | 566,588   | 97,708  | 6,157                           | 32,331                    | 5,313   | 1,401    | 618      | 4,721    | 20,278 |
| Rate   |           |           |         |                                 |                           |         |          |          |          |        |
| Medical risk factors   |           |           |         |                                 |                           |         |          |          |          |        |
| Anemia .....   | 23.2      | 20.4      | 37.0    | 53.7                            | 18.9                      | 10.1    | 19.9     | 41.4     | 16.1     | 20.9   |
| Diabetes .....   | 27.3      | 26.4      | 25.6    | 48.9                            | 44.0                      | 45.0    | 30.5     | 28.6     | 49.8     | 43.8   |
| Hypertension, pregnancy-associated .....                         | 38.2      | 38.7      | 40.5    | 48.8                            | 20.2                      | 12.2    | 21.7     | 39.9     | 30.3     | 18.4   |
| Uterine bleeding <sup>2</sup> .....                              | 6.3       | 6.6       | 4.8     | 8.1                             | 5.8                       | 5.1     | 8.5      | 10.0     | 5.8      | 5.5    |
| Complications of labor and/or delivery                           |           |           |         |                                 |                           |         |          |          |          |        |
| Meconium, moderate/heavy .....                                   | 54.7      | 50.5      | 75.8    | 57.4                            | 56.3                      | 51.4    | 36.8     | 58.6     | 65.2     | 56.4   |
| Premature rupture of membrane .....                              | 25.6      | 24.5      | 30.8    | 38.7                            | 24.5                      | 22.1    | 30.6     | 30.4     | 24.9     | 24.2   |
| Dysfunctional labor .....  | 27.1      | 27.3      | 25.5    | 36.2                            | 26.7                      | 30.7    | 25.7     | 27.7     | 26.0     | 25.8   |
| Breech/Malpresentation .....                                     | 38.9      | 40.8      | 30.4    | 36.6                            | 34.9                      | 37.7    | 39.8     | 34.5     | 34.0     | 34.1   |
| Cephalopelvic disproportion .....                                | 18.3      | 18.8      | 14.4    | 16.6                            | 23.2                      | 23.1    | 19.4     | 15.9     | 28.3     | 22.4   |
| Fetal distress <sup>3</sup> .....                                | 39.6      | 37.7      | 50.2    | 37.5                            | 35.7                      | 32.2    | 23.9     | 23.6     | 34.6     | 38.6   |
| Obstetric procedures   |           |           |         |                                 |                           |         |          |          |          |        |
| Amniocentesis .....  | 26.5      | 28.2      | 15.5    | 17.3                            | 36.1                      | 65.1    | 73.7     | 29.2     | 31.0     | 27.0   |
| Electronic fetal monitoring .....                                | 841.5     | 843.4     | 844.6   | 833.9                           | 799.9                     | 789.9   | 783.7    | 763.5    | 786.0    | 809.8  |
| Induction of labor .....   | 197.9     | 209.1     | 158.8   | 199.9                           | 135.0                     | 123.4   | 142.8    | 140.8    | 119.7    | 141.7  |
| Ultrasound .....   | 658.5     | 671.6     | 602.5   | 614.9                           | 629.2                     | 667.9   | 640.1    | 547.7    | 620.2    | 624.6  |
| Stimulation of labor .....                                       | 179.4     | 182.8     | 162.4   | 159.2                           | 182.5                     | 185.6   | 168.2    | 112.0    | 157.7    | 193.7  |

<sup>1</sup> Includes births to Aleuts and Eskimos.<sup>2</sup> Texas does not report this risk factor.<sup>3</sup> Texas does not report this complication.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.



**Table 28. Number and rate of live births to mothers with selected medical risk factors, complications of labor, and obstetric procedures, by Hispanic origin of mother and by race for mothers of non-Hispanic origin: United States, 1999**

[Rates are number of live births with specified risk factors, complications or procedures per 1,000 live births in specified group]

| Medical risk factor, complication,<br>and obstetric procedure | All origins <sup>1</sup> | Origin of mother |         |              |        |                            |                            |                    |           |         |
|---|--------------------------|------------------|---------|--------------|--------|----------------------------|----------------------------|--------------------|-----------|---------|
|   |                          | Hispanic         |         |              |        |                            |                            | Non-Hispanic       |           |         |
|   |                          | Total            | Mexican | Puerto Rican | Cuban  | Central and South American | Other and unknown Hispanic | Total <sup>2</sup> | White     | Black   |
| Number  |                          |                  |         |              |        |                            |                            |                    |           |         |
| Medical risk factors  |                          |                  |         |              |        |                            |                            |                    |           |         |
| Anemia .....  | 90,322                   | 17,470           | 11,400  | 1,919        | 186    | 1,741                      | 2,224                      | 71,532             | 44,782    | 21,628  |
| Diabetes .....  | 106,413                  | 20,987           | 14,335  | 1,941        | 284    | 2,942                      | 1,485                      | 84,124             | 60,072    | 14,778  |
| Hypertension, pregnancy-associated .....                      | 148,837                  | 20,950           | 14,235  | 1,685        | 406    | 2,831                      | 1,793                      | 126,284            | 97,489    | 23,653  |
| Uterine bleeding <sup>3</sup> .....                           | 22,332                   | 2,640            | 1,671   | 327          | 39     | 417                        | 186                        | 19,247             | 15,467    | 2,594   |
| Complications of labor and/or delivery                        |                          |                  |         |              |        |                            |                            |                    |           |         |
| Meconium, moderate/heavy .....                                | 213,698                  | 43,669           | 29,940  | 3,421        | 525    | 6,882                      | 2,901                      | 167,436            | 111,446   | 44,280  |
| Premature rupture of membrane .....                           | 100,130                  | 13,783           | 8,410   | 1,607        | 259    | 2,048                      | 1,459                      | 84,514             | 60,932    | 18,002  |
| Dysfunctional labor .....                                     | 105,795                  | 16,514           | 9,800   | 1,774        | 527    | 2,768                      | 1,645                      | 87,489             | 66,851    | 14,734  |
| Breech/Malpresentation .....                                  | 152,084                  | 22,583           | 15,033  | 2,065        | 519    | 3,298                      | 1,668                      | 127,574            | 102,590   | 17,693  |
| Cephalopelvic disproportion .....                             | 71,604                   | 10,430           | 7,353   | 860          | 170    | 1,422                      | 625                        | 60,345             | 47,334    | 8,448   |
| Fetal distress <sup>4</sup> .....                             | 140,756                  | 19,253           | 12,045  | 2,211        | 332    | 3,266                      | 1,399                      | 119,834            | 85,269    | 27,441  |
| Obstetric procedures  |                          |                  |         |              |        |                            |                            |                    |           |         |
| Amniocentesis .....   | 103,874                  | 9,462            | 4,623   | 1,217        | 348    | 2,266                      | 1,008                      | 92,426             | 76,596    | 8,971   |
| Electronic fetal monitoring .....                             | 3,296,037                | 600,947          | 416,444 | 49,007       | 11,777 | 82,217                     | 41,502                     | 2,658,739          | 1,997,493 | 493,948 |
| Induction of labor .....                                      | 775,245                  | 101,102          | 67,436  | 9,008        | 2,378  | 13,248                     | 9,032                      | 663,352            | 539,774   | 93,207  |
| Ultrasound .....  | 2,579,276                | 427,558          | 292,042 | 36,947       | 7,684  | 58,793                     | 32,092                     | 2,121,236          | 1,639,197 | 351,940 |
| Stimulation of labor .....                                    | 702,784                  | 127,225          | 86,009  | 12,118       | 2,275  | 18,355                     | 8,468                      | 567,195            | 435,253   | 94,648  |
| Rate  |                          |                  |         |              |        |                            |                            |                    |           |         |
| Medical risk factors  |                          |                  |         |              |        |                            |                            |                    |           |         |
| Anemia .....  | 23.2                     | 23.1             | 21.3    | 34.3         | 14.3   | 17.0                       | 45.1                       | 23.1               | 19.4      | 37.1    |
| Diabetes .....  | 27.3                     | 27.8             | 26.8    | 34.7         | 21.8   | 28.8                       | 30.1                       | 27.2               | 26.0      | 25.4    |
| Hypertension, pregnancy-associated .....                      | 38.2                     | 27.7             | 26.6    | 30.1         | 31.2   | 27.7                       | 36.4                       | 40.8               | 42.2      | 40.6    |
| Uterine bleeding <sup>3</sup> .....                           | 6.3                      | 4.4              | 4.2     | 6.0          | 3.1    | 4.4                        | 4.6                        | 6.6                | 7.1       | 4.8     |
| Complications of labor and/or delivery                        |                          |                  |         |              |        |                            |                            |                    |           |         |
| Meconium, moderate/heavy .....                                | 54.7                     | 57.5             | 55.7    | 60.9         | 40.3   | 67.1                       | 58.6                       | 53.9               | 48.2      | 75.9    |
| Premature rupture of membrane .....                           | 25.6                     | 18.2             | 15.6    | 28.6         | 19.9   | 20.0                       | 29.5                       | 27.2               | 26.3      | 30.8    |
| Dysfunctional labor .....                                     | 27.1                     | 21.8             | 18.2    | 31.6         | 40.4   | 27.0                       | 33.2                       | 28.2               | 28.9      | 25.2    |
| Breech/Malpresentation .....                                  | 38.9                     | 29.7             | 27.9    | 36.8         | 39.8   | 32.2                       | 33.7                       | 41.1               | 44.4      | 30.3    |
| Cephalopelvic disproportion .....                             | 18.3                     | 13.7             | 13.7    | 15.3         | 13.0   | 13.9                       | 12.6                       | 19.4               | 20.5      | 14.5    |
| Fetal distress <sup>4</sup> .....                             | 39.6                     | 32.0             | 30.3    | 40.1         | 26.0   | 34.5                       | 34.2                       | 41.2               | 39.3      | 50.5    |
| Obstetric procedures  |                          |                  |         |              |        |                            |                            |                    |           |         |
| Amniocentesis .....   | 26.5                     | 12.4             | 8.6     | 21.6         | 26.6   | 22.1                       | 20.3                       | 29.7               | 33.0      | 15.3    |
| Electronic fetal monitoring .....                             | 841.5                    | 790.6            | 773.4   | 870.9        | 901.7  | 800.1                      | 836.2                      | 854.4              | 861.2     | 844.7   |
| Induction of labor .....                                      | 197.9                    | 133.0            | 125.2   | 160.1        | 182.1  | 128.9                      | 182.0                      | 213.2              | 232.7     | 159.4   |
| Ultrasound .....  | 658.5                    | 562.5            | 542.4   | 656.6        | 588.3  | 572.1                      | 646.6                      | 681.7              | 706.7     | 601.8   |
| Stimulation of labor .....                                    | 179.4                    | 167.4            | 159.7   | 215.3        | 174.2  | 178.6                      | 170.6                      | 182.3              | 187.6     | 161.9   |

<sup>1</sup> Includes origin not stated.<sup>2</sup> Includes races other than white and black.<sup>3</sup> Texas does not report this risk factor.<sup>4</sup> Texas does not report this complication.

NOTE: Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.

**Table 29. Number of live births by smoking status of mother, percent smokers, and percent distribution by average number of cigarettes smoked by mothers per day, according to age and race of mother: Total of 48 reporting States and the District of Columbia, 1999**

| Smoking status, smoking measure, and race of mother | Age of mother |                |             |             |             |             |             |             |             |             |
|---|---------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|   | All ages      | Under 15 years | 15-19 years |             |             | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-54 years |
|   |               |                | Total       | 15-17 years | 18-19 years |             |             |             |             |             |
| Number  |               |                |             |             |             |             |             |             |             |             |
| <b>All races<sup>1</sup></b>                        |               |                |             |             |             |             |             |             |             |             |
| Total .....   | 3,430,385     | 7,999          | 418,240     | 143,003     | 275,237     | 858,770     | 937,236     | 768,339     | 367,719     | 72,082      |
| Smoker .....  | 426,036       | 616            | 74,805      | 21,895      | 52,910      | 141,480     | 101,656     | 64,877      | 35,842      | 6,760       |
| Nonsmoker .....                                     | 2,957,167     | 7,254          | 337,491     | 119,147     | 218,344     | 705,380     | 822,983     | 693,115     | 326,770     | 64,174      |
| Not stated .....                                    | 47,182        | 129            | 5,944       | 1,961       | 3,983       | 11,910      | 12,597      | 10,347      | 5,107       | 1,148       |
| <b>White</b>  |               |                |             |             |             |             |             |             |             |             |
| Total .....   | 2,702,289     | 3,874          | 289,581     | 94,350      | 195,231     | 644,752     | 758,986     | 641,781     | 304,505     | 58,810      |
| Smoker .....  | 363,374       | 481            | 64,461      | 18,662      | 45,799      | 121,320     | 87,498      | 54,881      | 29,383      | 5,350       |
| Nonsmoker .....                                     | 2,301,012     | 3,317          | 220,745     | 74,292      | 146,453     | 514,211     | 661,218     | 578,166     | 270,833     | 52,522      |
| Not stated .....                                    | 37,903        | 76             | 4,375       | 1,396       | 2,979       | 9,221       | 10,270      | 8,734       | 4,289       | 938         |
| <b>Black</b>  |               |                |             |             |             |             |             |             |             |             |
| Total .....   | 570,478       | 3,853          | 115,514     | 43,951      | 71,563      | 182,883     | 130,504     | 84,909      | 43,654      | 9,161       |
| Smoker .....  | 52,418        | 103            | 8,264       | 2,507       | 5,757       | 16,752      | 11,760      | 8,591       | 5,719       | 1,229       |
| Nonsmoker .....                                     | 512,215       | 3,704          | 106,122     | 41,039      | 65,083      | 164,279     | 117,365     | 75,445      | 37,501      | 7,799       |
| Not stated .....                                    | 5,845         | 46             | 1,128       | 405         | 723         | 1,852       | 1,379       | 873         | 434         | 133         |
| Percent   |               |                |             |             |             |             |             |             |             |             |
| Smoker <sup>1</sup> .....                           | 12.6          | 7.8            | 18.1        | 15.5        | 19.5        | 16.7        | 11.0        | 8.6         | 9.9         | 9.5         |
| White .....   | 13.6          | 12.7           | 22.6        | 20.1        | 23.8        | 19.1        | 11.7        | 8.7         | 9.8         | 9.2         |
| Black .....   | 9.3           | 2.7            | 7.2         | 5.8         | 8.1         | 9.3         | 9.1         | 10.2        | 13.2        | 13.6        |
| Percent distribution <sup>2</sup>                   |               |                |             |             |             |             |             |             |             |             |
| <b>All races<sup>1</sup></b>                        |               |                |             |             |             |             |             |             |             |             |
| Smoker .....  | 100.0         | 100.0          | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       |
| 1-5 cigarettes .....                                | 29.0          | 50.5           | 36.8        | 41.3        | 35.0        | 29.8        | 26.0        | 25.7        | 24.4        | 23.9        |
| 6-10 cigarettes .....                               | 41.1          | 35.6           | 41.9        | 40.5        | 42.5        | 42.4        | 40.9        | 39.4        | 38.4        | 36.8        |
| 11-15 cigarettes .....                              | 6.2           | *              | 4.5         | 4.0         | 4.7         | 5.4         | 7.0         | 7.4         | 7.7         | 7.4         |
| 16-20 cigarettes .....                              | 20.3          | 9.8            | 14.9        | 12.9        | 15.7        | 19.4        | 22.3        | 23.1        | 24.1        | 25.8        |
| 21-30 cigarettes .....                              | 2.5           | *              | 1.3         | 1.0         | 1.5         | 2.2         | 2.8         | 3.1         | 3.7         | 4.1         |
| 31-40 cigarettes .....                              | 0.9           | *              | 0.4         | 0.3         | 0.5         | 0.7         | 0.9         | 1.2         | 1.5         | 1.8         |
| 41 cigarettes or more .....                         | 0.1           | *              | 0.1         | *           | 0.1         | 0.1         | 0.2         | 0.2         | 0.2         | *           |
| <b>White</b>  |               |                |             |             |             |             |             |             |             |             |
| Smoker .....  | 100.0         | 100.0          | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       |
| 1-5 cigarettes .....                                | 26.0          | 45.0           | 33.5        | 37.8        | 31.7        | 26.5        | 23.3        | 23.1        | 21.4        | 21.3        |
| 6-10 cigarettes .....                               | 41.7          | 38.4           | 43.6        | 42.4        | 44.0        | 43.5        | 41.1        | 39.2        | 37.8        | 35.6        |
| 11-15 cigarettes .....                              | 6.7           | *              | 4.8         | 4.3         | 5.0         | 5.9         | 7.6         | 8.1         | 8.5         | 8.0         |
| 16-20 cigarettes .....                              | 21.9          | 11.5           | 16.2        | 14.1        | 17.0        | 20.9        | 23.9        | 24.7        | 26.1        | 28.1        |
| 21-30 cigarettes .....                              | 2.7           | *              | 1.4         | 1.1         | 1.6         | 2.3         | 3.0         | 3.4         | 4.2         | 4.7         |
| 31-40 cigarettes .....                              | 0.9           | *              | 0.5         | 0.3         | 0.5         | 0.8         | 0.9         | 1.3         | 1.7         | 2.2         |
| 41 cigarettes or more .....                         | 0.1           | *              | 0.1         | *           | 0.1         | 0.1         | 0.2         | 0.2         | 0.2         | *           |
| <b>Black</b>  |               |                |             |             |             |             |             |             |             |             |
| Smoker .....  | 100.0         | 100.0          | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       | 100.0       |
| 1-5 cigarettes .....                                | 46.8          | 70.3           | 59.0        | 63.2        | 57.2        | 51.0        | 42.6        | 40.0        | 38.4        | 34.0        |
| 6-10 cigarettes .....                               | 37.3          | 25.3           | 31.1        | 28.4        | 32.2        | 35.6        | 39.5        | 40.4        | 40.9        | 41.2        |
| 11-15 cigarettes .....                              | 3.0           | *              | 2.2         | 2.3         | 2.2         | 2.3         | 3.4         | 3.8         | 3.8         | 5.1         |
| 16-20 cigarettes .....                              | 11.2          | *              | 6.8         | 5.3         | 7.4         | 9.6         | 12.7        | 13.5        | 14.8        | 16.7        |
| 21-30 cigarettes .....                              | 1.0           | *              | 0.6         | *           | 0.7         | 0.9         | 1.0         | 1.4         | 1.2         | 2.0         |
| 31-40 cigarettes .....                              | 0.5           | *              | 0.3         | *           | *           | 0.4         | 0.7         | 0.8         | 0.6         | *           |
| 41 cigarettes or more .....                         | 0.1           | *              | *           | *           | *           | *           | *           | *           | *           | *           |

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.

<sup>1</sup> Includes races other than white and black.<sup>2</sup> Excludes data for Indiana and New York State (but includes New York City) which did not report average number of cigarettes smoked per day in standard categories.

NOTE: Excludes data for California and South Dakota, which did not require reporting of tobacco use during pregnancy. Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

**Table 30. Number of live births by smoking status of mother and percent of mothers who smoked cigarettes during pregnancy, by age and Hispanic origin of mother and by race for mothers of non-Hispanic origin: Total of 48 reporting States, and the District of Columbia, 1999**

| Origin of mother                 | Smoking status |         |            |            | Age of mother |                |             |             |             |             |             |             |             |             |
|----------------------------------|----------------|---------|------------|------------|---------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                                  | Total births   | Smoker  | Non-smoker | Not stated | All ages      | Under 15 years | 15-19 years |             |             | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-54 years |
|                                  |                |         |            |            |               |                | Total       | 15-17 years | 18-19 years |             |             |             |             |             |
| All origins <sup>1</sup> .....   | 3,430,385      | 426,036 | 2,957,167  | 47,182     | 12.6          | 7.8            | 18.1        | 15.5        | 19.5        | 16.7        | 11.0        | 8.6         | 9.9         | 9.5         |
| Hispanic .....                   | 514,796        | 19,058  | 489,930    | 5,808      | 3.7           | 4.3            | 4.6         | 4.3         | 4.9         | 4.1         | 3.1         | 3.1         | 3.6         | 3.9         |
| Mexican .....                    | 323,105        | 8,388   | 310,667    | 4,050      | 2.6           | 3.3            | 3.3         | 3.1         | 3.4         | 2.7         | 2.2         | 2.3         | 3.0         | 3.1         |
| Puerto Rican .....               | 55,112         | 5,686   | 48,703     | 723        | 10.5          | *              | 10.3        | 9.0         | 11.1        | 11.9        | 9.8         | 9.1         | 9.2         | 11.4        |
| Cuban .....                      | 12,399         | 406     | 11,952     | 41         | 3.3           | *              | 5.8         | *           | 6.0         | 4.2         | 2.5         | 2.6         | 3.3         | *           |
| Central and South American ..... | 78,563         | 1,124   | 76,959     | 480        | 1.4           | *              | 1.8         | 1.5         | 1.9         | 1.6         | 1.2         | 1.3         | 1.6         | 1.7         |
| Other and unknown Hispanic ..... | 45,617         | 3,454   | 41,649     | 514        | 7.7           | 9.0            | 8.7         | 7.6         | 9.4         | 8.6         | 6.7         | 6.5         | 6.9         | 6.1         |
| Non-Hispanic <sup>2</sup> .....  | 2,871,003      | 400,678 | 2,432,865  | 37,460     | 14.1          | 8.9            | 21.7        | 19.0        | 23.0        | 19.6        | 12.3        | 9.2         | 10.6        | 10.2        |
| White .....                      | 2,165,609      | 339,724 | 1,796,892  | 28,993     | 15.9          | 20.8           | 30.1        | 28.7        | 30.7        | 23.9        | 13.5        | 9.5         | 10.6        | 9.9         |
| Black .....                      | 554,643        | 51,402  | 497,821    | 5,420      | 9.4           | 2.8            | 7.2         | 5.7         | 8.1         | 9.3         | 9.2         | 10.4        | 13.5        | 14.0        |

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.

<sup>1</sup> Includes origin not stated.

<sup>2</sup> Includes races other than white and black.

NOTES: Excludes data for California and South Dakota, which did not require reporting of tobacco use during pregnancy. Race and Hispanic origin are reported separately on birth certificates. Persons of Hispanic origin may be of any race. In this table Hispanic women are classified only by place of origin; non-Hispanic women are classified by race. See Technical notes.

**Table 31. Number of live births, percent of mothers who smoked cigarettes during pregnancy, and percent distribution of average number of cigarettes smoked by mothers per day, according to educational attainment and race and Hispanic origin of mother: Total of 48 reporting States, and the District of Columbia, 1999**

| Smoking measure, and<br>race and Hispanic origin of mother | Total     | Years of school completed by mother |               |             |                |                     |               |
|--|-----------|-------------------------------------|---------------|-------------|----------------|---------------------|---------------|
|  |           | 0-8<br>years                        | 9-11<br>years | 12<br>years | 13-15<br>years | 16 years<br>or more | Not<br>Stated |
| All births   |           |                                     |               |             |                |                     |               |
| All races <sup>1</sup> .....                               | 3,430,385 | 159,931                             | 529,765       | 1,101,150   | 753,833        | 829,961             | 55,745        |
| White, total .....   | 2,702,289 | 138,200                             | 377,250       | 836,155     | 595,963        | 715,892             | 38,829        |
| White, non-Hispanic .....                                  | 2,165,609 | 38,719                              | 238,431       | 681,211     | 521,578        | 665,337             | 20,333        |
| Black, total .....   | 570,478   | 14,939                              | 133,217       | 220,026     | 127,366        | 62,963              | 11,967        |
| Black, non-Hispanic .....                                  | 554,643   | 13,681                              | 129,633       | 214,581     | 124,396        | 61,414              | 10,938        |
| Hispanic <sup>2</sup> .....                                | 514,796   | 100,476                             | 138,635       | 150,518     | 70,078         | 41,281              | 13,808        |
| Percent  |           |                                     |               |             |                |                     |               |
| Smoker .....   | 12.6      | 11.0                                | 25.6          | 16.7        | 9.4            | 2.1                 | 12.3          |
| White, total .....   | 13.6      | 11.2                                | 29.2          | 19.1        | 10.4           | 2.2                 | 12.9          |
| White, non-Hispanic .....                                  | 15.9      | 34.0                                | 42.4          | 22.4        | 11.3           | 2.3                 | 18.9          |
| Black, total .....   | 9.3       | 10.9                                | 16.5          | 8.9         | 5.5            | 1.9                 | 12.5          |
| Black, non-Hispanic .....                                  | 9.4       | 11.4                                | 16.7          | 9.0         | 5.5            | 1.9                 | 12.6          |
| Hispanic <sup>2</sup> .....                                | 3.7       | 2.2                                 | 5.8           | 3.9         | 3.1            | 1.1                 | 3.3           |
| Percent distribution <sup>3</sup>                          |           |                                     |               |             |                |                     |               |
| All races <sup>1</sup>                                     |           |                                     |               |             |                |                     |               |
| Smoker .....   | 100.0     | 100.0                               | 100.0         | 100.0       | 100.0          | 100.0               | 100.0         |
| 10 cigarettes or less .....                                | 70.1      | 64.7                                | 70.0          | 69.3        | 71.8           | 76.2                | 73.1          |
| 11-20 cigarettes .....                                     | 26.5      | 29.6                                | 26.3          | 27.3        | 25.3           | 21.5                | 23.6          |
| 21 cigarettes or more .....                                | 3.5       | 5.7                                 | 3.7           | 3.3         | 2.9            | 2.3                 | 3.3           |
| White, total   |           |                                     |               |             |                |                     |               |
| Smoker .....   | 100.0     | 100.0                               | 100.0         | 100.0       | 100.0          | 100.0               | 100.0         |
| 10 cigarettes or less .....                                | 67.7      | 62.4                                | 66.8          | 67.1        | 70.2           | 75.3                | 69.5          |
| 11-20 cigarettes .....                                     | 28.5      | 31.5                                | 29.1          | 29.3        | 26.7           | 22.2                | 26.5          |
| 21 cigarettes or more .....                                | 3.7       | 6.2                                 | 4.2           | 3.6         | 3.1            | 2.5                 | 3.9           |
| White, non-Hispanic  |           |                                     |               |             |                |                     |               |
| Smoker .....   | 100.0     | 100.0                               | 100.0         | 100.0       | 100.0          | 100.0               | 100.0         |
| 10 cigarettes or less .....                                | 66.8      | 58.6                                | 65.4          | 66.6        | 69.8           | 75.0                | 67.9          |
| 11-20 cigarettes .....                                     | 29.3      | 34.5                                | 30.3          | 29.8        | 27.1           | 22.5                | 28.0          |
| 21 cigarettes or more .....                                | 3.9       | 6.9                                 | 4.3           | 3.6         | 3.2            | 2.5                 | 4.1           |
| Black, total   |           |                                     |               |             |                |                     |               |
| Smoker .....   | 100.0     | 100.0                               | 100.0         | 100.0       | 100.0          | 100.0               | 100.0         |
| 10 cigarettes or less .....                                | 84.1      | 82.0                                | 83.9          | 84.5        | 83.9           | 84.8                | 83.4          |
| 11-20 cigarettes .....                                     | 14.2      | 15.3                                | 14.2          | 14.0        | 14.6           | 14.2                | 14.8          |
| 21 cigarettes or more .....                                | 1.7       | 2.7                                 | 2.0           | 1.5         | 1.5            | *                   | 1.8           |
| Black, non-Hispanic  |           |                                     |               |             |                |                     |               |
| Smoker .....   | 100.0     | 100.0                               | 100.0         | 100.0       | 100.0          | 100.0               | 100.0         |
| 10 cigarettes or less .....                                | 84.0      | 82.3                                | 83.8          | 84.5        | 83.9           | 84.9                | 83.3          |
| 11-20 cigarettes .....                                     | 14.3      | 15.0                                | 14.2          | 14.1        | 14.7           | 14.1                | 14.9          |
| 21 cigarettes or more .....                                | 1.7       | 2.7                                 | 2.0           | 1.4         | 1.5            | *                   | *             |
| Hispanic <sup>2</sup>                                      |           |                                     |               |             |                |                     |               |
| Smoker .....   | 100.0     | 100.0                               | 100.0         | 100.0       | 100.0          | 100.0               | 100.0         |
| 10 cigarettes or less .....                                | 84.3      | 84.8                                | 85.0          | 83.9        | 82.5           | 84.6                | 83.8          |
| 11-20 cigarettes .....                                     | 14.0      | 13.1                                | 13.3          | 14.5        | 16.4           | 14.1                | 14.0          |
| 21 cigarettes or more .....                                | 1.6       | 2.1                                 | 1.7           | 1.6         | 1.1            | *                   | *             |

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.

<sup>1</sup> Includes races other than white and black and origin not stated.<sup>2</sup> Includes all persons of Hispanic origin of any race.<sup>3</sup> Excludes data for Indiana and New York State (but includes New York City) which did not report average number of cigarettes smoked per day in standard categories.

NOTE: Excludes data for California and South Dakota, which did not require reporting of tobacco use during pregnancy.

**Table 32. Percent low birthweight by smoking status, age, and race and Hispanic origin of mother: Total of 48 reporting States, and the District of Columbia, 1999**

[Low birthweight is defined as weight of less than 2,500 grams (5 lb 8 oz)]

| Smoking status and<br>race of mother | All ages | Age of mother     |             |                |                |                |                |                |                |                |
|--------------------------------------|----------|-------------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                                      |          | Under 15<br>years | 15-19 years |                |                | 20-24<br>years | 25-29<br>years | 30-34<br>years | 35-39<br>years | 40-54<br>years |
|                                      |          |                   | Total       | 15-17<br>years | 18-19<br>years |                |                |                |                |                |
| <b>All races <sup>1</sup></b>        |          |                   |             |                |                |                |                |                |                |                |
| Total .....                          | 7.8      | 13.4              | 9.9         | 10.8           | 9.5            | 7.8            | 6.9            | 7.1            | 8.6            | 10.6           |
| Smoker .....                         | 12.1     | 15.7              | 11.6        | 12.4           | 11.3           | 10.6           | 11.5           | 13.2           | 16.7           | 19.3           |
| Nonsmoker .....                      | 7.2      | 13.2              | 9.6         | 10.5           | 9.0            | 7.3            | 6.3            | 6.6            | 7.7            | 9.7            |
| Not stated .....                     | 9.5      | *                 | 10.9        | 11.2           | 10.8           | 8.9            | 8.9            | 9.1            | 10.5           | 15.0           |
| <b>White, total</b>                  |          |                   |             |                |                |                |                |                |                |                |
| Total .....                          | 6.7      | 11.5              | 8.4         | 9.2            | 8.1            | 6.6            | 6.0            | 6.3            | 7.5            | 9.4            |
| Smoker .....                         | 10.8     | 15.1              | 10.9        | 11.6           | 10.6           | 9.8            | 10.2           | 11.4           | 14.4           | 16.4           |
| Nonsmoker .....                      | 6.1      | 11.1              | 7.7         | 8.5            | 7.2            | 5.8            | 5.4            | 5.8            | 6.7            | 8.6            |
| Not stated .....                     | 8.5      | *                 | 10.0        | 10.5           | 9.8            | 7.8            | 7.9            | 8.3            | 9.4            | 13.3           |
| <b>White, non-Hispanic</b>           |          |                   |             |                |                |                |                |                |                |                |
| Total .....                          | 6.7      | 11.6              | 8.5         | 9.3            | 8.2            | 6.7            | 6.0            | 6.3            | 7.4            | 9.3            |
| Smoker .....                         | 10.8     | 15.7              | 10.8        | 11.6           | 10.5           | 9.8            | 10.2           | 11.2           | 14.3           | 16.3           |
| Nonsmoker .....                      | 5.9      | 10.5              | 7.5         | 8.3            | 7.1            | 5.7            | 5.4            | 5.7            | 6.6            | 8.5            |
| Not stated .....                     | 8.7      | *                 | 10.3        | 11.1           | 9.9            | 8.0            | 8.2            | 8.4            | 9.4            | 12.8           |
| <b>Black, total</b>                  |          |                   |             |                |                |                |                |                |                |                |
| Total .....                          | 13.2     | 15.5              | 13.8        | 14.3           | 13.5           | 12.3           | 12.3           | 13.6           | 16.1           | 18.3           |
| Smoker .....                         | 21.0     | 19.4              | 17.3        | 18.0           | 17.0           | 16.7           | 21.5           | 25.0           | 29.2           | 32.8           |
| Nonsmoker .....                      | 12.4     | 15.4              | 13.5        | 14.1           | 13.1           | 11.8           | 11.3           | 12.3           | 14.0           | 15.9           |
| Not stated .....                     | 16.4     | *                 | 15.1        | 13.9           | 15.8           | 14.6           | 16.4           | 17.6           | 21.8           | 24.2           |
| <b>Black, non-Hispanic</b>           |          |                   |             |                |                |                |                |                |                |                |
| Total .....                          | 13.3     | 15.6              | 13.9        | 14.3           | 13.6           | 12.4           | 12.5           | 13.8           | 16.3           | 18.4           |
| Smoker .....                         | 21.1     | 19.4              | 17.4        | 18.0           | 17.1           | 16.7           | 21.6           | 25.1           | 29.4           | 32.9           |
| Nonsmoker .....                      | 12.5     | 15.4              | 13.6        | 14.1           | 13.3           | 11.9           | 11.5           | 12.4           | 14.2           | 15.9           |
| Not stated .....                     | 16.5     | *                 | 15.3        | 14.2           | 15.8           | 14.5           | 16.5           | 18.0           | 22.4           | 25.2           |
| <b>Hispanic <sup>2</sup></b>         |          |                   |             |                |                |                |                |                |                |                |
| Total .....                          | 6.8      | 11.5              | 8.3         | 9.1            | 7.8            | 6.4            | 5.9            | 6.6            | 8.1            | 10.1           |
| Smoker .....                         | 11.8     | *                 | 11.7        | 12.2           | 11.4           | 10.6           | 10.8           | 13.8           | 15.4           | 17.3           |
| Nonsmoker .....                      | 6.6      | 11.4              | 8.1         | 8.9            | 7.5            | 6.2            | 5.7            | 6.3            | 7.7            | 9.6            |
| Not stated .....                     | 8.3      | *                 | 9.5         | 9.4            | 9.5            | 7.7            | 7.4            | 7.8            | 9.8            | 15.4           |

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.

<sup>1</sup> Includes races other than white and black and origin not stated.<sup>2</sup> Includes all persons of Hispanic origin of any race.

NOTE: Excludes data for California and South Dakota, which did not require reporting of tobacco use during pregnancy.

**Table 33. Live births by month of pregnancy prenatal care began and percent of mothers beginning care in the first trimester and percent with late or no care, by age and race and Hispanic origin of mother: United States, 1999**

| Age and race and Hispanic origin of mother | All births | Month of pregnancy prenatal care began |                   |          |                |         |                 |         |         |            | Percent       |                 |
|--|------------|--|-------------------|----------|----------------|---------|-----------------|---------|---------|------------|---------------|-----------------|
|  |            | 1st trimester                          |                   |          | 2d trimester   |         | Late or no care |         |         | Not stated | 1st trimester | Late or no care |
|  |            | Total                                  | 1st and 2d months | 3d month | 4th-6th months | Total   | 7th-9th months  | No care |         |            |               |                 |
| All races <sup>1</sup> .....               | 3,959,417  | 3,198,714                              | 2,478,491         | 720,223  | 499,928        | 146,449 | 102,202         | 44,247  | 114,326 | 83.2       | 3.8           |                 |
| Under 15 years .....                       | 9,054      | 4,098                                  | 2,521             | 1,577    | 3,177          | 1,375   | 976             | 399     | 404     | 47.4       | 15.9          |                 |
| 15-19 years .....                          | 476,050    | 317,423                                | 215,687           | 101,736  | 110,496        | 32,445  | 23,289          | 9,156   | 15,686  | 69.0       | 7.0           |                 |
| 15 years .....                             | 22,896     | 12,503                                 | 7,799             | 4,704    | 7,032          | 2,461   | 1,759           | 702     | 900     | 56.8       | 11.2          |                 |
| 16 years .....                             | 51,516     | 30,843                                 | 19,875            | 10,968   | 14,376         | 4,448   | 3,169           | 1,279   | 1,849   | 62.1       | 9.0           |                 |
| 17 years .....                             | 89,176     | 57,875                                 | 38,403            | 19,472   | 21,866         | 6,463   | 4,619           | 1,844   | 2,972   | 67.1       | 7.5           |                 |
| 18 years .....                             | 133,988    | 90,749                                 | 62,010            | 28,739   | 30,318         | 8,663   | 6,296           | 2,367   | 4,258   | 70.0       | 6.7           |                 |
| 19 years .....                             | 178,474    | 125,453                                | 87,600            | 37,853   | 36,904         | 10,410  | 7,446           | 2,964   | 5,707   | 72.6       | 6.0           |                 |
| 20-24 years .....                          | 981,929    | 742,928                                | 548,641           | 194,287  | 161,807        | 47,135  | 33,674          | 13,461  | 30,059  | 78.0       | 5.0           |                 |
| 25-29 years .....                          | 1,078,252  | 908,407                                | 720,738           | 187,669  | 110,020        | 31,244  | 21,795          | 9,449   | 28,581  | 86.5       | 3.0           |                 |
| 30-34 years .....                          | 892,400    | 778,770                                | 632,449           | 146,321  | 69,471         | 20,316  | 13,580          | 6,736   | 23,843  | 89.7       | 2.3           |                 |
| 35-39 years .....                          | 434,294    | 374,640                                | 301,515           | 73,125   | 35,940         | 11,121  | 7,093           | 4,028   | 12,593  | 88.8       | 2.6           |                 |
| 40 years and over .....                    | 87,438     | 72,448                                 | 56,940            | 15,508   | 9,017          | 2,813   | 1,795           | 1,018   | 3,160   | 86.0       | 3.3           |                 |
| White, total .....                         | 3,132,501  | 2,597,095                              | 2,030,014         | 567,081  | 357,303        | 98,770  | 71,262          | 27,508  | 79,333  | 85.1       | 3.2           |                 |
| Under 15 years .....                       | 4,739      | 2,344                                  | 1,455             | 889      | 1,536          | 667     | 460             | 207     | 192     | 51.6       | 14.7          |                 |
| 15-19 years .....                          | 337,888    | 233,139                                | 159,480           | 73,659   | 73,720         | 21,031  | 15,441          | 5,590   | 9,998   | 71.1       | 6.4           |                 |
| 15 years .....                             | 14,193     | 8,272                                  | 5,185             | 3,087    | 4,019          | 1,424   | 1,039           | 385     | 478     | 60.3       | 10.4          |                 |
| 16 years .....                             | 34,649     | 21,755                                 | 14,094            | 7,661    | 8,973          | 2,795   | 2,007           | 788     | 1,126   | 64.9       | 8.3           |                 |
| 17 years .....                             | 62,782     | 42,287                                 | 28,317            | 13,970   | 14,430         | 4,202   | 3,047           | 1,155   | 1,863   | 69.4       | 6.9           |                 |
| 18 years .....                             | 96,254     | 67,188                                 | 46,292            | 20,896   | 20,638         | 5,716   | 4,229           | 1,487   | 2,712   | 71.8       | 6.1           |                 |
| 19 years .....                             | 130,010    | 93,637                                 | 65,592            | 28,045   | 25,660         | 6,894   | 5,119           | 1,775   | 3,819   | 74.2       | 5.5           |                 |
| 20-24 years .....                          | 748,371    | 580,102                                | 430,422           | 149,680  | 115,368        | 32,191  | 23,737          | 8,454   | 20,710  | 79.7       | 4.4           |                 |
| 25-29 years .....                          | 873,654    | 750,495                                | 599,261           | 151,234  | 81,289         | 21,750  | 15,704          | 6,046   | 20,120  | 87.9       | 2.5           |                 |
| 30-34 years .....                          | 739,948    | 657,232                                | 537,432           | 119,800  | 51,878         | 13,757  | 9,578           | 4,179   | 17,081  | 90.9       | 1.9           |                 |
| 35-39 years .....                          | 356,959    | 313,736                                | 254,356           | 59,380   | 26,792         | 7,471   | 5,054           | 2,417   | 8,960   | 90.2       | 2.1           |                 |
| 40 years and over .....                    | 70,942     | 60,047                                 | 47,608            | 12,439   | 6,720          | 1,903   | 1,288           | 615     | 2,272   | 87.4       | 2.8           |                 |
| White, non-Hispanic .....                  | 2,346,450  | 2,030,575                              | 1,618,301         | 412,274  | 214,732        | 52,435  | 37,826          | 14,609  | 48,708  | 88.4       | 2.3           |                 |
| Under 15 years .....                       | 2,048      | 1,048                                  | 647               | 401      | 650            | 287     | 207             | 80      | 63      | 52.8       | 14.5          |                 |
| 15-19 years .....                          | 212,923    | 155,365                                | 107,232           | 48,133   | 42,109         | 10,380  | 7,787           | 2,593   | 5,069   | 74.7       | 5.0           |                 |
| 15 years .....                             | 6,963      | 4,226                                  | 2,681             | 1,545    | 1,867          | 661     | 499             | 162     | 209     | 62.6       | 9.8           |                 |
| 16 years .....                             | 18,886     | 12,524                                 | 8,132             | 4,392    | 4,559          | 1,295   | 953             | 342     | 508     | 68.1       | 7.0           |                 |
| 17 years .....                             | 37,671     | 26,935                                 | 18,050            | 8,885    | 7,934          | 1,936   | 1,438           | 498     | 866     | 73.2       | 5.3           |                 |
| 18 years .....                             | 62,282     | 45,777                                 | 31,848            | 13,929   | 12,139         | 2,955   | 2,225           | 730     | 1,411   | 75.2       | 4.9           |                 |
| 19 years .....                             | 87,121     | 65,903                                 | 46,521            | 19,382   | 15,610         | 3,533   | 2,672           | 861     | 2,075   | 77.5       | 4.2           |                 |
| 20-24 years .....                          | 514,386    | 418,400                                | 315,581           | 102,819  | 68,207         | 16,197  | 12,145          | 4,052   | 11,582  | 83.2       | 3.2           |                 |
| 25-29 years .....                          | 663,569    | 591,763                                | 481,682           | 110,081  | 48,003         | 11,396  | 8,160           | 3,236   | 12,407  | 90.9       | 1.8           |                 |
| 30-34 years .....                          | 600,830    | 548,259                                | 454,830           | 93,429   | 32,887         | 8,093   | 5,556           | 2,537   | 11,591  | 93.0       | 1.4           |                 |
| 35-39 years .....                          | 294,590    | 265,223                                | 217,717           | 47,506   | 18,220         | 4,820   | 3,151           | 1,669   | 6,327   | 92.0       | 1.7           |                 |
| 40 years and over .....                    | 58,104     | 50,517                                 | 40,612            | 9,905    | 4,656          | 1,262   | 820             | 442     | 1,669   | 89.5       | 2.2           |                 |
| Black, total .....                         | 605,970    | 429,639                                | 317,995           | 111,644  | 111,678        | 38,493  | 23,943          | 14,550  | 26,160  | 74.1       | 6.6           |                 |
| Under 15 years .....                       | 3,977      | 1,627                                  | 999               | 628      | 1,515          | 645     | 467             | 178     | 190     | 43.0       | 17.0          |                 |
| 15-19 years .....                          | 121,166    | 74,359                                 | 49,905            | 24,454   | 31,877         | 9,913   | 6,666           | 3,247   | 5,017   | 64.0       | 8.5           |                 |
| 15 years .....                             | 7,865      | 3,838                                  | 2,376             | 1,462    | 2,713          | 932     | 639             | 293     | 382     | 51.3       | 12.5          |                 |
| 16 years .....                             | 14,942     | 8,097                                  | 5,176             | 2,921    | 4,744          | 1,440   | 995             | 445     | 661     | 56.7       | 10.1          |                 |
| 17 years .....                             | 23,112     | 13,756                                 | 8,971             | 4,785    | 6,412          | 1,962   | 1,340           | 622     | 982     | 62.2       | 8.9           |                 |
| 18 years .....                             | 32,948     | 20,756                                 | 13,942            | 6,814    | 8,343          | 2,518   | 1,731           | 787     | 1,331   | 65.6       | 8.0           |                 |
| 19 years .....                             | 42,299     | 27,912                                 | 19,440            | 8,472    | 9,665          | 3,061   | 1,961           | 1,100   | 1,661   | 68.7       | 7.5           |                 |
| 20-24 years .....                          | 193,211    | 134,743                                | 98,269            | 36,474   | 38,446         | 12,434  | 8,020           | 4,414   | 7,588   | 72.6       | 6.7           |                 |
| 25-29 years .....                          | 138,868    | 105,399                                | 81,116            | 24,283   | 20,436         | 7,144   | 4,305           | 2,839   | 5,889   | 79.3       | 5.4           |                 |
| 30-34 years .....                          | 91,486     | 70,654                                 | 54,884            | 15,770   | 11,528         | 4,876   | 2,717           | 2,159   | 4,428   | 81.2       | 5.6           |                 |
| 35-39 years .....                          | 47,277     | 35,731                                 | 27,450            | 8,281    | 6,300          | 2,793   | 1,422           | 1,371   | 2,453   | 79.7       | 6.2           |                 |
| 40 years and over .....                    | 9,985      | 7,126                                  | 5,372             | 1,754    | 1,576          | 688     | 346             | 342     | 595     | 75.9       | 7.3           |                 |

See footnotes at end of table.

**Table 33. Live births by month of pregnancy prenatal care began and percent of mothers beginning care in the first trimester and percent with late or no care, by age and race and Hispanic origin of mother: United States, 1999 --Con.**

| Age and race and Hispanic origin of mother | All births | Month of pregnancy prenatal care began |                   |          |                |        |                 |         |        |            | Percent       |                 |
|--|------------|--|-------------------|----------|----------------|--------|-----------------|---------|--------|------------|---------------|-----------------|
|  |            | 1st trimester                          |                   |          | 2d trimester   |        | Late or no care |         |        | Not stated | 1st trimester | Late or no care |
|  |            | Total                                  | 1st and 2d months | 3d month | 4th-6th months | Total  | 7th-9th months  | No care |        |            |               |                 |
| Black, non-Hispanic                        | 588,981    | 418,140                                | 309,771           | 108,369  | 108,654        | 37,280 | 23,105          | 14,175  | 24,907 | 74.1       | 6.6           |                 |
| Under 15 years .....                       | 3,890      | 1,593                                  | 981               | 612      | 1,484          | 627    | 455             | 172     | 186    | 43.0       | 16.9          |                 |
| 15-19 years .....                          | 118,285    | 72,658                                 | 48,777            | 23,881   | 31,177         | 9,636  | 6,487           | 3,149   | 4,814  | 64.0       | 8.5           |                 |
| 15 years .....                             | 7,698      | 3,754                                  | 2,322             | 1,432    | 2,664          | 912    | 626             | 286     | 368    | 51.2       | 12.4          |                 |
| 16 years .....                             | 14,573     | 7,895                                  | 5,048             | 2,847    | 4,634          | 1,409  | 981             | 428     | 635    | 56.6       | 10.1          |                 |
| 17 years .....                             | 22,580     | 13,454                                 | 8,773             | 4,681    | 6,272          | 1,912  | 1,306           | 606     | 942    | 62.2       | 8.8           |                 |
| 18 years .....                             | 32,155     | 20,262                                 | 13,626            | 6,636    | 8,172          | 2,444  | 1,683           | 761     | 1,277  | 65.6       | 7.9           |                 |
| 19 years .....                             | 41,279     | 27,293                                 | 19,008            | 8,285    | 9,435          | 2,959  | 1,891           | 1,068   | 1,592  | 68.8       | 7.5           |                 |
| 20-24 years .....                          | 188,247    | 131,431                                | 95,964            | 35,467   | 37,499         | 12,062 | 7,758           | 4,304   | 7,255  | 72.6       | 6.7           |                 |
| 25-29 years .....                          | 134,784    | 102,488                                | 78,942            | 23,546   | 19,806         | 6,879  | 4,119           | 2,760   | 5,611  | 79.3       | 5.3           |                 |
| 30-34 years .....                          | 88,403     | 68,454                                 | 53,278            | 15,176   | 11,080         | 4,697  | 2,588           | 2,109   | 4,172  | 81.3       | 5.6           |                 |
| 35-39 years .....                          | 45,746     | 34,640                                 | 26,635            | 8,005    | 6,082          | 2,711  | 1,369           | 1,342   | 2,313  | 79.8       | 6.2           |                 |
| 40 years and over .....                    | 9,626      | 6,876                                  | 5,194             | 1,682    | 1,526          | 668    | 329             | 339     | 556    | 75.8       | 7.4           |                 |
| Hispanic <sup>2</sup> .....                | 764,339    | 548,580                                | 396,758           | 151,822  | 142,091        | 46,232 | 33,598          | 12,634  | 27,436 | 74.4       | 6.3           |                 |
| Under 15 years .....                       | 2,725      | 1,308                                  | 813               | 495      | 905            | 387    | 260             | 127     | 125    | 50.3       | 14.9          |                 |
| 15-19 years .....                          | 124,677    | 77,605                                 | 52,179            | 25,426   | 31,721         | 10,689 | 7,705           | 2,984   | 4,662  | 64.7       | 8.9           |                 |
| 15 years .....                             | 7,288      | 4,079                                  | 2,527             | 1,552    | 2,175          | 774    | 551             | 223     | 260    | 58.0       | 11.0          |                 |
| 16 years .....                             | 15,828     | 9,271                                  | 5,981             | 3,290    | 4,449          | 1,504  | 1,054           | 450     | 604    | 60.9       | 9.9           |                 |
| 17 years .....                             | 25,113     | 15,359                                 | 10,284            | 5,075    | 6,529          | 2,282  | 1,624           | 658     | 943    | 63.5       | 9.4           |                 |
| 18 years .....                             | 33,806     | 21,310                                 | 14,392            | 6,918    | 8,509          | 2,765  | 2,015           | 750     | 1,222  | 65.4       | 8.5           |                 |
| 19 years .....                             | 42,642     | 27,586                                 | 18,995            | 8,591    | 10,059         | 3,364  | 2,461           | 903     | 1,633  | 67.3       | 8.2           |                 |
| 20-24 years .....                          | 231,475    | 159,829                                | 113,319           | 46,510   | 47,064         | 15,996 | 11,655          | 4,341   | 8,586  | 71.7       | 7.2           |                 |
| 25-29 years .....                          | 203,985    | 153,576                                | 113,314           | 40,262   | 33,151         | 10,374 | 7,611           | 2,763   | 6,884  | 77.9       | 5.3           |                 |
| 30-34 years .....                          | 131,369    | 102,341                                | 76,965            | 25,376   | 18,830         | 5,600  | 4,043           | 1,557   | 4,598  | 80.7       | 4.4           |                 |
| 35-39 years .....                          | 58,146     | 45,036                                 | 33,718            | 11,318   | 8,421          | 2,580  | 1,874           | 706     | 2,109  | 80.4       | 4.6           |                 |
| 40 years and over .....                    | 11,962     | 8,885                                  | 6,450             | 2,435    | 1,999          | 606    | 450             | 156     | 472    | 77.3       | 5.3           |                 |

<sup>1</sup> Includes races other than white and black and origin not stated.<sup>2</sup> Includes all persons of Hispanic origin of any race.

**Table 34. Percent of mothers beginning prenatal care in the first trimester and percent of mothers with late or no prenatal care by race and Hispanic origin of mother: United States, each State and territory, 1999**

[By place of residence]

| State                      | Percent beginning care in first trimester |       |              |       |              |                       | Percent late <sup>1</sup> or no care |       |              |       |              |                       |
|----------------------------|---|-------|--------------|-------|--------------|-----------------------|--------------------------------------|-------|--------------|-------|--------------|-----------------------|
|                            | All races <sup>2</sup>                    | White |              | Black |              | Hispanic <sup>3</sup> | All races <sup>2</sup>               | White |              | Black |              | Hispanic <sup>3</sup> |
|                            |   | Total | Non-Hispanic | Total | Non-Hispanic |                       |                                      | Total | Non-Hispanic | Total | Non-Hispanic |                       |
| United States <sup>4</sup> | 83.2                                      | 85.1  | 88.4         | 74.1  | 74.1         | 74.4                  | 3.8                                  | 3.2   | 2.3          | 6.6   | 6.6          | 6.3                   |
| Alabama                    | 83.2                                      | 88.9  | 90.0         | 71.4  | 71.4         | 60.5                  | 3.7                                  | 2.4   | 2.0          | 6.3   | 6.3          | 13.9                  |
| Alaska                     | 79.4                                      | 82.2  | 82.2         | 83.6  | 83.7         | 79.6                  | 4.8                                  | 3.9   | 4.1          | *     | *            | *                     |
| Arizona                    | 75.9                                      | 76.6  | 86.1         | 74.5  | 74.3         | 65.0                  | 7.0                                  | 6.8   | 3.0          | 6.7   | 6.7          | 11.4                  |
| Arkansas                   | 79.0                                      | 81.7  | 83.1         | 69.4  | 69.4         | 63.5                  | 4.8                                  | 3.8   | 3.3          | 8.3   | 8.3          | 11.3                  |
| California                 | 83.6                                      | 83.6  | 89.2         | 81.0  | 81.1         | 79.7                  | 3.2                                  | 3.2   | 2.0          | 3.9   | 3.9          | 4.0                   |
| Colorado                   | 81.7                                      | 82.0  | 88.4         | 75.4  | 75.2         | 66.0                  | 4.3                                  | 4.2   | 2.4          | 6.4   | 6.5          | 8.8                   |
| Connecticut                | 89.3                                      | 90.6  | 93.1         | 81.0  | 81.5         | 78.3                  | 2.0                                  | 1.8   | 1.4          | 3.7   | 3.7          | 3.8                   |
| Delaware                   | 83.7                                      | 86.4  | 88.2         | 75.5  | 75.5         | 71.8                  | 3.6                                  | 2.9   | 2.5          | 5.9   | 5.8          | 6.0                   |
| District of Columbia       | 71.9                                      | 82.7  | 90.9         | 67.1  | 67.0         | 64.2                  | 9.3                                  | 5.5   | 2.7          | 11.1  | 11.1         | 11.8                  |
| Florida                    | 83.9                                      | 87.1  | 89.1         | 73.6  | 73.6         | 81.3                  | 3.4                                  | 2.6   | 2.1          | 6.0   | 6.0          | 4.2                   |
| Georgia                    | 87.3                                      | 90.4  | 91.9         | 81.1  | 81.0         | 79.7                  | 2.5                                  | 1.8   | 1.3          | 3.9   | 3.9          | 5.4                   |
| Hawaii                     | 85.7                                      | 91.0  | 91.7         | 91.2  | 90.7         | 83.8                  | 2.9                                  | 2.1   | 1.9          | *     | *            | 3.2                   |
| Idaho                      | 80.5                                      | 80.7  | 82.9         | 73.7  | 73.6         | 64.8                  | 3.9                                  | 3.8   | 3.1          | *     | *            | 8.6                   |
| Illinois                   | 82.5                                      | 85.4  | 89.9         | 70.0  | 69.9         | 72.4                  | 4.1                                  | 3.0   | 2.1          | 8.7   | 8.7          | 5.9                   |
| Indiana                    | 80.6                                      | 82.2  | 83.3         | 67.3  | 67.2         | 64.4                  | 3.7                                  | 3.3   | 2.9          | 7.3   | 7.3          | 9.1                   |
| Iowa                       | 87.7                                      | 88.3  | 89.1         | 74.8  | 75.2         | 71.2                  | 2.2                                  | 2.1   | 1.9          | 5.1   | 5.2          | 6.5                   |
| Kansas                     | 85.8                                      | 86.7  | 89.2         | 76.9  | 77.0         | 68.1                  | 2.9                                  | 2.7   | 1.9          | 4.7   | 4.8          | 8.2                   |
| Kentucky                   | 86.6                                      | 87.4  | 87.7         | 78.3  | 78.3         | 71.2                  | 2.6                                  | 2.4   | 2.3          | 4.9   | 5.0          | 9.1                   |
| Louisiana                  | 82.9                                      | 89.7  | 89.8         | 73.2  | 73.2         | 85.6                  | 3.7                                  | 1.9   | 1.8          | 6.3   | 6.3          | 2.7                   |
| Maine                      | 89.2                                      | 89.5  | 89.7         | 83.0  | 81.4         | 84.4                  | 1.8                                  | 1.7   | 1.7          | *     | *            | *                     |
| Maryland                   | 87.0                                      | 91.4  | 92.4         | 78.0  | 78.0         | 81.4                  | 3.1                                  | 1.9   | 1.6          | 5.7   | 5.7          | 4.3                   |
| Massachusetts              | 89.4                                      | 90.8  | 92.2         | 80.0  | 80.3         | 79.0                  | 2.4                                  | 2.0   | 1.7          | 5.4   | 5.2          | 4.7                   |
| Michigan                   | 84.0                                      | 87.0  | 88.5         | 69.9  | 69.9         | 72.0                  | 3.6                                  | 2.6   | 2.2          | 8.2   | 8.1          | 6.4                   |
| Minnesota                  | 84.5                                      | 87.0  | 88.1         | 66.4  | 66.2         | 62.1                  | 2.7                                  | 2.2   | 1.9          | 6.7   | 6.6          | 7.7                   |
| Mississippi                | 81.5                                      | 89.1  | 89.3         | 72.7  | 72.7         | 74.5                  | 3.6                                  | 1.7   | 1.6          | 5.9   | 5.9          | 6.3                   |
| Missouri                   | 87.1                                      | 89.0  | 89.5         | 76.4  | 76.3         | 77.5                  | 2.7                                  | 2.2   | 2.0          | 5.9   | 5.9          | 5.4                   |
| Montana                    | 83.8                                      | 85.8  | 86.1         | 85.7  | 87.5         | 76.4                  | 3.0                                  | 2.3   | 2.1          | *     | *            | 6.6                   |
| Nebraska                   | 84.4                                      | 85.4  | 87.4         | 73.8  | 73.9         | 68.8                  | 2.9                                  | 2.5   | 2.0          | 6.9   | 6.8          | 7.1                   |
| Nevada                     | 75.2                                      | 75.5  | 83.2         | 69.6  | 69.8         | 62.0                  | 6.7                                  | 6.7   | 4.0          | 8.1   | 7.9          | 11.4                  |
| New Hampshire              | 90.7                                      | 91.0  | 91.4         | 72.9  | 70.9         | 80.6                  | 1.5                                  | 1.4   | 1.3          | *     | *            | *                     |
| New Jersey                 | 81.3                                      | 85.1  | 89.7         | 64.8  | 64.6         | 69.9                  | 4.7                                  | 3.3   | 2.1          | 10.8  | 10.9         | 7.3                   |
| New Mexico                 | 66.8                                      | 68.1  | 73.6         | 62.6  | 61.8         | 64.4                  | 10.0                                 | 9.5   | 7.6          | 10.4  | 11.1         | 10.8                  |
| New York                   | 81.0                                      | 84.2  | 88.1         | 71.0  | 71.2         | 71.8                  | 5.1                                  | 3.9   | 2.9          | 8.7   | 8.8          | 7.3                   |
| North Carolina             | 85.0                                      | 88.4  | 91.1         | 76.1  | 76.0         | 68.7                  | 3.0                                  | 2.2   | 1.5          | 5.3   | 5.3          | 7.3                   |
| North Dakota               | 86.3                                      | 88.3  | 88.6         | 72.1  | 72.6         | 81.7                  | 2.0                                  | 1.3   | 1.2          | *     | *            | *                     |
| Ohio                       | 86.6                                      | 88.4  | 88.6         | 76.3  | 76.6         | 77.9                  | 3.5                                  | 2.7   | 2.6          | 8.2   | 7.9          | 5.3                   |
| Oklahoma                   | 80.5                                      | 82.6  | 83.8         | 73.1  | 73.2         | 68.7                  | 4.2                                  | 3.5   | 3.2          | 6.0   | 5.9          | 6.8                   |
| Oregon                     | 80.9                                      | 81.2  | 83.8         | 76.0  | 76.1         | 68.6                  | 3.7                                  | 3.6   | 3.0          | 3.4   | 3.3          | 6.6                   |
| Pennsylvania               | 85.2                                      | 87.6  | 88.5         | 71.6  | 71.6         | 73.9                  | 3.3                                  | 2.6   | 2.4          | 8.0   | 8.0          | 5.6                   |
| Rhode Island               | 91.3                                      | 92.4  | 93.6         | 83.2  | 83.7         | 86.1                  | 1.4                                  | 1.1   | 0.9          | 3.4   | 2.8          | 2.5                   |
| South Carolina             | 80.7                                      | 85.9  | 87.2         | 70.9  | 70.9         | 61.1                  | 4.7                                  | 3.1   | 2.6          | 7.7   | 7.7          | 11.7                  |
| South Dakota               | 83.4                                      | 87.0  | 87.4         | 74.2  | 73.9         | 68.5                  | 3.1                                  | 1.8   | 1.7          | *     | *            | *                     |
| Tennessee                  | 84.3                                      | 87.0  | 87.9         | 74.6  | 74.6         | 64.0                  | 3.5                                  | 2.5   | 2.1          | 7.1   | 7.1          | 12.4                  |
| Texas                      | 79.3                                      | 79.3  | 87.3         | 76.7  | 76.7         | 72.2                  | 5.5                                  | 5.4   | 2.8          | 6.2   | 6.2          | 7.9                   |
| Utah                       | 80.5                                      | 81.5  | 84.0         | 63.7  | 62.4         | 63.0                  | 4.4                                  | 4.1   | 3.3          | 9.8   | 10.3         | 9.3                   |
| Vermont                    | 87.9                                      | 88.0  | 88.0         | 81.6  | 84.8         | 80.6                  | 2.5                                  | 2.4   | 2.4          | *     | *            | *                     |
| Virginia                   | 85.3                                      | 88.6  | 90.2         | 74.5  | 74.5         | 74.0                  | 3.2                                  | 2.3   | 1.9          | 6.0   | 6.0          | 6.2                   |
| Washington                 | 82.8                                      | 83.6  | 86.0         | 75.7  | 75.5         | 71.1                  | 3.1                                  | 2.9   | 2.4          | 4.4   | 4.3          | 5.6                   |
| West Virginia              | 85.1                                      | 85.6  | 85.7         | 70.7  | 70.8         | 68.8                  | 2.4                                  | 2.4   | 2.4          | 4.3   | 4.3          | *                     |
| Wisconsin                  | 84.1                                      | 86.6  | 87.7         | 69.1  | 69.1         | 70.6                  | 3.3                                  | 2.5   | 2.2          | 8.6   | 8.6          | 7.4                   |
| Wyoming                    | 83.0                                      | 83.4  | 84.3         | 76.4  | 76.8         | 74.8                  | 3.7                                  | 3.6   | 3.3          | *     | *            | 6.3                   |
| Puerto Rico                | 77.7                                      | 78.5  | ---          | 69.0  | ---          | ---                   | 3.7                                  | 3.5   | ---          | 5.4   | ---          | ---                   |
| Virgin Islands             | 59.6                                      | 63.1  | 73.5         | 58.2  | 59.0         | 57.5                  | 11.7                                 | 9.0   | *            | 12.4  | 12.2         | 8.7                   |
| Guam                       | 61.8                                      | 86.5  | 87.8         | 77.6  | 79.2         | 73.3                  | 14.0                                 | *     | *            | *     | *            | *                     |
| American Samoa             | ---                                       | ---   | ---          | ---   | ---          | ---                   | ---                                  | ---   | ---          | ---   | ---          | ---                   |
| Northern Marianas          | 30.2                                      | *     | ---          | *     | ---          | ---                   | 25.7                                 | *     | ---          | *     | ---          | ---                   |

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator or .

--- Data not available.

1 Care beginning in 3rd trimester.

2 Includes races other than white and black and origin not stated.

3 Includes all persons of Hispanic origin of any race.

4 Excludes data for the territories.

NOTE: Data on prenatal care are not available for American Samoa. Data on month prenatal care began for the Northern Marianas are substantially incomplete; see Table I in the Technical notes.



**Table 35. Live births by month of pregnancy prenatal care began, number of prenatal visits, and median number of visits, by race and Hispanic origin of mother: United States, 1999**

| Number of prenatal visits<br>and race and Hispanic origin of mother | All<br>births | Month of pregnancy prenatal care began |                      |             |                   |         |                   |            | Not<br>stated |
|---|---------------|--|----------------------|-------------|-------------------|---------|-------------------|------------|---------------|
|   |               | 1st trimester                          |                      |             | 2d trimester      |         | Late or no care   |            |               |
|   |               | Total                                  | 1st and 2d<br>months | 3d<br>month | 4th-6th<br>months | Total   | 7th-9th<br>months | No<br>care |               |
| All races <sup>1</sup> .....  | 3,959,417     | 3,198,714                              | 2,478,491            | 720,223     | 499,928           | 146,449 | 102,202           | 44,247     | 114,326       |
| No visits .....   | 44,247        | ...                                    | ...                  | ...         | ...               | 44,247  | ...               | 44,247     | ...           |
| 1-2 visits .....  | 39,675        | 9,921                                  | 6,689                | 3,232       | 9,343             | 18,469  | 18,469            | ...        | 1,942         |
| 3-4 visits .....  | 81,104        | 23,723                                 | 13,755               | 9,968       | 28,884            | 25,807  | 25,807            | ...        | 2,690         |
| 5-6 visits .....  | 172,584       | 73,357                                 | 43,087               | 30,270      | 69,951            | 25,495  | 25,495            | ...        | 3,781         |
| 7-8 visits .....  | 317,189       | 191,117                                | 118,244              | 72,873      | 106,027           | 14,975  | 14,975            | ...        | 5,070         |
| 9-10 visits .....   | 745,368       | 589,430                                | 398,952              | 190,478     | 138,821           | 8,435   | 8,435             | ...        | 8,682         |
| 11-12 visits .....  | 1,024,418     | 935,203                                | 726,827              | 208,376     | 79,565            | 3,435   | 3,435             | ...        | 6,215         |
| 13-14 visits .....  | 657,157       | 623,916                                | 520,336              | 103,580     | 28,675            | 1,395   | 1,395             | ...        | 3,171         |
| 15-16 visits .....  | 474,820       | 452,829                                | 393,370              | 59,459      | 18,742            | 1,001   | 1,001             | ...        | 2,248         |
| 17-18 visits .....  | 103,130       | 98,949                                 | 85,839               | 13,110      | 3,428             | 203     | 203               | ...        | 550           |
| 19 visits or more .....   | 146,593       | 139,332                                | 123,321              | 16,011      | 5,872             | 461     | 461               | ...        | 928           |
| Not stated .....  | 153,132       | 60,937                                 | 48,071               | 12,866      | 10,620            | 2,526   | 2,526             | ...        | 79,049        |
| Median number of visits .....                                       | 12.3          | 12.6                                   | 12.8                 | 11.6        | 9.6               | 5.4     | 5.4               | ...        | 10.3          |
| White, total .....  | 3,132,501     | 2,597,095                              | 2,030,014            | 567,081     | 357,303           | 98,770  | 71,262            | 27,508     | 79,333        |
| No visits .....   | 27,508        | ...                                    | ...                  | ...         | ...               | 27,508  | ...               | 27,508     | ...           |
| 1-2 visits .....  | 25,067        | 6,381                                  | 4,332                | 2,049       | 5,403             | 12,137  | 12,137            | ...        | 1,146         |
| 3-4 visits .....  | 53,202        | 15,775                                 | 9,199                | 6,576       | 18,194            | 17,513  | 17,513            | ...        | 1,720         |
| 5-6 visits .....  | 120,541       | 52,425                                 | 30,736               | 21,689      | 47,541            | 18,026  | 18,026            | ...        | 2,549         |
| 7-8 visits .....  | 238,264       | 148,071                                | 92,464               | 55,607      | 75,704            | 10,848  | 10,848            | ...        | 3,641         |
| 9-10 visits .....   | 582,074       | 468,547                                | 320,114              | 148,433     | 101,076           | 6,133   | 6,133             | ...        | 6,318         |
| 11-12 visits .....  | 838,448       | 771,527                                | 603,619              | 167,908     | 59,551            | 2,573   | 2,573             | ...        | 4,797         |
| 13-14 visits .....  | 547,578       | 522,041                                | 436,894              | 85,147      | 21,990            | 1,075   | 1,075             | ...        | 2,472         |
| 15-16 visits .....  | 388,062       | 371,505                                | 323,812              | 47,693      | 14,029            | 788     | 788               | ...        | 1,740         |
| 17-18 visits .....  | 85,252        | 82,014                                 | 71,521               | 10,493      | 2,633             | 153     | 153               | ...        | 452           |
| 19 visits or more .....   | 118,521       | 113,330                                | 101,140              | 12,190      | 4,138             | 354     | 354               | ...        | 699           |
| Not stated .....  | 107,984       | 45,479                                 | 36,183               | 9,296       | 7,044             | 1,662   | 1,662             | ...        | 53,799        |
| Median number of visits .....                                       | 12.4          | 12.7                                   | 12.9                 | 11.7        | 9.8               | 5.6     | 5.6               | ...        | 10.4          |
| White, non-Hispanic .....   | 2,346,450     | 2,030,575                              | 1,618,301            | 412,274     | 214,732           | 52,435  | 37,826            | 14,609     | 48,708        |
| No visits .....   | 14,609        | ...                                    | ...                  | ...         | ...               | 14,609  | ...               | 14,609     | ...           |
| 1-2 visits .....  | 13,307        | 3,687                                  | 2,576                | 1,111       | 2,795             | 6,184   | 6,184             | ...        | 641           |
| 3-4 visits .....  | 29,001        | 9,446                                  | 5,729                | 3,717       | 9,716             | 8,852   | 8,852             | ...        | 987           |
| 5-6 visits .....  | 72,455        | 34,980                                 | 21,352               | 13,628      | 26,592            | 9,351   | 9,351             | ...        | 1,532         |
| 7-8 visits .....  | 159,717       | 107,017                                | 68,775               | 38,242      | 44,513            | 5,921   | 5,921             | ...        | 2,266         |
| 9-10 visits .....   | 416,996       | 348,502                                | 244,266              | 104,236     | 60,700            | 3,486   | 3,486             | ...        | 4,308         |
| 11-12 visits .....  | 664,465       | 620,066                                | 492,401              | 127,665     | 39,171            | 1,677   | 1,677             | ...        | 3,551         |
| 13-14 visits .....  | 443,357       | 425,567                                | 359,099              | 66,468      | 15,174            | 680     | 680               | ...        | 1,936         |
| 15-16 visits .....  | 302,852       | 292,770                                | 258,074              | 34,696      | 8,246             | 500     | 500               | ...        | 1,336         |
| 17-18 visits .....  | 68,686        | 66,412                                 | 58,256               | 8,156       | 1,809             | 104     | 104               | ...        | 361           |
| 19 visits or more .....   | 96,222        | 92,758                                 | 83,544               | 9,214       | 2,706             | 256     | 256               | ...        | 502           |
| Not stated .....  | 64,783        | 29,370                                 | 24,229               | 5,141       | 3,310             | 815     | 815               | ...        | 31,288        |
| Median number of visits .....                                       | 12.5          | 12.7                                   | 12.9                 | 11.9        | 10.0              | 5.7     | 5.7               | ...        | 10.7          |
| Black, total .....  | 605,970       | 429,639                                | 317,995              | 111,644     | 111,678           | 38,493  | 23,943            | 14,550     | 26,160        |
| No visits .....   | 14,550        | ...                                    | ...                  | ...         | ...               | 14,550  | ...               | 14,550     | ...           |
| 1-2 visits .....  | 11,947        | 2,931                                  | 1,951                | 980         | 3,302             | 5,040   | 5,040             | ...        | 674           |
| 3-4 visits .....  | 22,230        | 6,386                                  | 3,673                | 2,713       | 8,584             | 6,508   | 6,508             | ...        | 752           |
| 5-6 visits .....  | 40,073        | 15,854                                 | 9,447                | 6,407       | 17,536            | 5,739   | 5,739             | ...        | 944           |
| 7-8 visits .....  | 57,558        | 30,183                                 | 18,050               | 12,133      | 23,209            | 3,096   | 3,096             | ...        | 1,070         |
| 9-10 visits .....   | 119,593       | 86,624                                 | 56,079               | 30,545      | 29,478            | 1,746   | 1,746             | ...        | 1,745         |
| 11-12 visits .....  | 128,219       | 111,403                                | 82,693               | 28,710      | 15,255            | 611     | 611               | ...        | 950           |
| 13-14 visits .....  | 76,811        | 70,916                                 | 57,808               | 13,108      | 5,208             | 221     | 221               | ...        | 466           |
| 15-16 visits .....  | 64,126        | 59,695                                 | 50,807               | 8,888       | 3,895             | 156     | 156               | ...        | 380           |
| 17-18 visits .....  | 13,065        | 12,307                                 | 10,295               | 2,012       | 645               | 35      | 35                | ...        | 78            |
| 19 visits or more .....   | 22,298        | 20,552                                 | 17,393               | 3,159       | 1,487             | 84      | 84                | ...        | 175           |
| Not stated .....  | 35,500        | 12,788                                 | 9,799                | 2,989       | 3,079             | 707     | 707               | ...        | 18,926        |
| Median number of visits .....                                       | 11.7          | 12.5                                   | 12.7                 | 11.2        | 9.2               | 5.0     | 5.0               | ...        | 9.4           |

See footnotes at end of table.

**Table 35. Live births by month of pregnancy prenatal care began, number of prenatal visits, and median number of visits, by race and Hispanic origin of mother: United States, 1999 --Con.**

| Number of prenatal visits<br>and race and Hispanic origin of mother | All<br>births | Month of pregnancy prenatal care began |                      |             |                   |        |                   |            | Not<br>stated |
|---|---------------|--|----------------------|-------------|-------------------|--------|-------------------|------------|---------------|
|   |               | 1st trimester                          |                      |             | 2d trimester      |        | Late or no care   |            |               |
|   |               | Total                                  | 1st and 2d<br>months | 3d<br>month | 4th-6th<br>months | Total  | 7th-9th<br>months | No<br>care |               |
| Black, non-Hispanic .....   | 588,981       | 418,140                                | 309,771              | 108,369     | 108,654           | 37,280 | 23,105            | 14,175     | 24,907        |
| No visits .....   | 14,175        | ...                                    | ...                  | ...         | ...               | 14,175 | ...               | 14,175     | ...           |
| 1-2 visits .....  | 11,654        | 2,866                                  | 1,910                | 956         | 3,231             | 4,903  | 4,903             | ...        | 654           |
| 3-4 visits .....  | 21,608        | 6,235                                  | 3,590                | 2,645       | 8,376             | 6,287  | 6,287             | ...        | 710           |
| 5-6 visits .....  | 38,969        | 15,442                                 | 9,228                | 6,214       | 17,095            | 5,530  | 5,530             | ...        | 902           |
| 7-8 visits .....  | 55,803        | 29,276                                 | 17,523               | 11,753      | 22,547            | 2,971  | 2,971             | ...        | 1,009         |
| 9-10 visits .....   | 115,543       | 83,585                                 | 54,071               | 29,514      | 28,656            | 1,676  | 1,676             | ...        | 1,626         |
| 11-12 visits .....  | 124,630       | 108,364                                | 80,462               | 27,902      | 14,802            | 583    | 583               | ...        | 881           |
| 13-14 visits .....  | 74,901        | 69,204                                 | 56,483               | 12,721      | 5,040             | 215    | 215               | ...        | 442           |
| 15-16 visits .....  | 62,880        | 58,538                                 | 49,840               | 8,698       | 3,820             | 154    | 154               | ...        | 368           |
| 17-18 visits .....  | 12,773        | 12,036                                 | 10,077               | 1,959       | 627               | 33     | 33                | ...        | 77            |
| 19 visits or more .....   | 21,830        | 20,124                                 | 17,031               | 3,093       | 1,456             | 84     | 84                | ...        | 166           |
| Not stated .....  | 34,215        | 12,470                                 | 9,556                | 2,914       | 3,004             | 669    | 669               | ...        | 18,072        |
| Median number of visits .....                                       | 11.8          | 12.5                                   | 12.7                 | 11.2        | 9.2               | 5.0    | 5.0               | ...        | 9.3           |
| Hispanic <sup>2</sup> .....   | 764,339       | 548,580                                | 396,758              | 151,822     | 142,091           | 46,232 | 33,598            | 12,634     | 27,436        |
| No visits .....   | 12,634        | ...                                    | ...                  | ...         | ...               | 12,634 | ...               | 12,634     | ...           |
| 1-2 visits .....  | 11,792        | 2,679                                  | 1,747                | 932         | 2,633             | 5,990  | 5,990             | ...        | 490           |
| 3-4 visits .....  | 24,332        | 6,319                                  | 3,467                | 2,852       | 8,545             | 8,739  | 8,739             | ...        | 729           |
| 5-6 visits .....  | 48,058        | 17,303                                 | 9,269                | 8,034       | 21,048            | 8,723  | 8,723             | ...        | 984           |
| 7-8 visits .....  | 77,792        | 40,432                                 | 23,274               | 17,158      | 31,079            | 4,939  | 4,939             | ...        | 1,342         |
| 9-10 visits .....   | 162,407       | 117,556                                | 73,837               | 43,719      | 40,200            | 2,657  | 2,657             | ...        | 1,994         |
| 11-12 visits .....  | 167,443       | 145,168                                | 106,051              | 39,117      | 20,184            | 908    | 908               | ...        | 1,183         |
| 13-14 visits .....  | 100,019       | 92,387                                 | 74,350               | 18,037      | 6,729             | 393    | 393               | ...        | 510           |
| 15-16 visits .....  | 82,714        | 76,312                                 | 63,598               | 12,714      | 5,737             | 287    | 287               | ...        | 378           |
| 17-18 visits .....  | 15,984        | 15,022                                 | 12,751               | 2,271       | 825               | 50     | 50                | ...        | 87            |
| 19 visits or more .....   | 21,588        | 19,894                                 | 16,968               | 2,926       | 1,419             | 96     | 96                | ...        | 179           |
| Not stated .....  | 39,576        | 15,508                                 | 11,446               | 4,062       | 3,692             | 816    | 816               | ...        | 19,560        |
| Median number of visits .....                                       | 11.6          | 12.4                                   | 12.7                 | 11.1        | 9.4               | 5.4    | 5.4               | ...        | 9.7           |

... Category not applicable.

<sup>1</sup> Includes races other than white and black and origin not stated.<sup>2</sup> Includes all persons of Hispanic origin of any race.

**Table 36. Live births to mothers with selected obstetric procedures and rates by age of mother, by race of mother: United States, 1999**

[Rates are number of live births with specified procedure per 1,000 live births in specified group]

| Obstetric procedure and race of mother | All births | Obstetric procedure reported | Age of mother |                |             |             |             |             |             | Not stated <sup>1</sup> |
|--|------------|------------------------------|---------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
|  |            |                              | All ages      | Under 20 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-54 years |                         |
| All races <sup>2</sup>                 |            |                              |               |                |             |             |             |             |             |                         |
| Amniocentesis .....                    | 3,959,417  | 103,874                      | 26.5          | 6.8            | 8.6         | 11.6        | 21.8        | 109.7       | 156.0       | 42,734                  |
| Electronic fetal monitoring .....      | 3,959,417  | 3,296,037                    | 841.5         | 851.9          | 846.7       | 844.2       | 837.2       | 826.4       | 813.4       | 42,734                  |
| Induction of labor .....               | 3,959,417  | 775,245                      | 197.9         | 182.7          | 195.2       | 206.0       | 201.4       | 194.9       | 192.7       | 42,734                  |
| Stimulation of labor .....             | 3,959,417  | 702,784                      | 179.4         | 192.9          | 184.4       | 182.2       | 175.2       | 161.0       | 149.9       | 42,734                  |
| Tocolysis .....                        | 3,959,417  | 92,342                       | 23.6          | 25.4           | 24.2        | 23.4        | 22.8        | 22.4        | 22.7        | 42,734                  |
| Ultrasound .....                       | 3,959,417  | 2,579,276                    | 658.5         | 630.4          | 646.7       | 665.0       | 672.4       | 671.0       | 664.8       | 42,734                  |
| White                                  |            |                              |               |                |             |             |             |             |             |                         |
| Amniocentesis .....                    | 3,132,501  | 87,511                       | 28.2          | 6.9            | 8.8         | 11.7        | 22.4        | 114.6       | 166.2       | 33,113                  |
| Electronic fetal monitoring .....      | 3,132,501  | 2,614,055                    | 843.4         | 853.3          | 847.6       | 846.8       | 840.2       | 829.1       | 815.0       | 33,113                  |
| Induction of labor .....               | 3,132,501  | 648,095                      | 209.1         | 194.6          | 207.5       | 217.2       | 211.1       | 203.9       | 200.8       | 33,113                  |
| Stimulation of labor .....             | 3,132,501  | 566,588                      | 182.8         | 200.5          | 189.5       | 184.9       | 177.6       | 163.4       | 153.1       | 33,113                  |
| Tocolysis .....                        | 3,132,501  | 73,884                       | 23.8          | 26.5           | 24.7        | 23.6        | 23.0        | 22.4        | 22.0        | 33,113                  |
| Ultrasound .....                       | 3,132,501  | 2,081,638                    | 671.6         | 648.0          | 660.9       | 676.6       | 682.6       | 681.2       | 676.4       | 33,113                  |
| Black                                  |            |                              |               |                |             |             |             |             |             |                         |
| Amniocentesis .....                    | 605,970    | 9,296                        | 15.5          | 6.3            | 7.8         | 11.2        | 17.0        | 64.7        | 89.4        | 4,468                   |
| Electronic fetal monitoring .....      | 605,970    | 508,057                      | 844.6         | 853.7          | 850.0       | 842.7       | 834.6       | 828.6       | 823.0       | 4,468                   |
| Induction of labor .....               | 605,970    | 95,500                       | 158.8         | 154.5          | 156.9       | 162.7       | 160.6       | 161.4       | 164.2       | 4,468                   |
| Stimulation of labor .....             | 605,970    | 97,708                       | 162.4         | 175.5          | 167.4       | 160.5       | 151.1       | 141.5       | 134.0       | 4,468                   |
| Tocolysis .....                        | 605,970    | 13,477                       | 22.4          | 21.6           | 21.8        | 22.7        | 23.2        | 23.8        | 26.6        | 4,468                   |
| Ultrasound .....                       | 605,970    | 362,419                      | 602.5         | 586.9          | 599.9       | 610.3       | 612.3       | 611.9       | 607.9       | 4,468                   |

<sup>1</sup> No response reported for the obstetric procedures item.<sup>2</sup> Includes races other than white and black.

NOTE: Race and Hispanic origin are reported separately on the birth certificate. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

**Table 37. Live births to mothers with selected complications of labor and/or delivery and rates by age of mother, by race of mother: United States, 1999**

[Rates are number of live births with specified complication per 1,000 live births in specified group]

| Complication and race of mother            | All births <sup>1</sup> | Complication reported | Age of mother |                |             |             |             |             |             | Not stated <sup>2</sup> |
|--|-------------------------|-----------------------|---------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
|  |                         |                       | All ages      | Under 20 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-54 years |                         |
| All races <sup>3</sup>                     |                         |                       |               |                |             |             |             |             |             |                         |
| Febrile .....                              | 3,959,417               | 59,904                | 15.3          | 18.5           | 15.6        | 15.9        | 14.5        | 12.3        | 11.1        | 52,046                  |
| Meconium, moderate/heavy .....             | 3,959,417               | 213,698               | 54.7          | 59.7           | 55.2        | 53.5        | 52.5        | 55.1        | 55.5        | 52,046                  |
| Premature rupture of membrane .....        | 3,959,417               | 100,130               | 25.6          | 26.7           | 24.3        | 25.1        | 25.8        | 27.3        | 30.9        | 52,046                  |
| Abruptio placenta .....                    | 3,959,417               | 21,999                | 5.6           | 5.4            | 5.2         | 5.3         | 5.8         | 7.0         | 8.6         | 52,046                  |
| Placenta previa .....                      | 3,959,417               | 12,492                | 3.2           | 1.1            | 1.7         | 2.8         | 4.3         | 6.5         | 8.9         | 52,046                  |
| Other excessive bleeding .....             | 3,959,417               | 21,930                | 5.6           | 5.2            | 5.2         | 5.5         | 5.8         | 6.4         | 8.2         | 52,046                  |
| Seizures during labor .....                | 3,959,417               | 1,331                 | 0.3           | 0.7            | 0.4         | 0.3         | 0.2         | 0.3         | 0.3         | 52,046                  |
| Precipitous labor .....                    | 3,959,417               | 77,848                | 19.9          | 14.3           | 18.9        | 19.8        | 22.1        | 23.6        | 23.3        | 52,046                  |
| Prolonged labor .....                      | 3,959,417               | 30,683                | 7.9           | 8.4            | 8.0         | 7.8         | 7.8         | 7.3         | 7.9         | 52,046                  |
| Dysfunctional labor .....                  | 3,959,417               | 105,795               | 27.1          | 26.5           | 25.5        | 27.4        | 27.7        | 28.2        | 31.2        | 52,046                  |
| Breech/Malpresentation .....               | 3,959,417               | 152,084               | 38.9          | 29.2           | 31.5        | 39.1        | 44.7        | 50.4        | 58.1        | 52,046                  |
| Cephalopelvic disproportion .....          | 3,959,417               | 71,604                | 18.3          | 17.4           | 16.7        | 19.2        | 19.2        | 18.6        | 20.6        | 52,046                  |
| Cord prolapse .....                        | 3,959,417               | 7,773                 | 2.0           | 1.6            | 1.8         | 1.9         | 2.1         | 2.5         | 2.8         | 52,046                  |
| Anesthetic complication <sup>4</sup> ..... | 3,610,172               | 2,299                 | 0.6           | 0.4            | 0.5         | 0.7         | 0.7         | 0.8         | 0.9         | 54,515                  |
| Fetal distress <sup>4</sup> .....          | 3,610,172               | 140,756               | 39.6          | 43.7           | 38.5        | 38.0        | 38.6        | 41.7        | 49.7        | 54,515                  |
| White                                      |                         |                       |               |                |             |             |             |             |             |                         |
| Febrile .....                              | 3,132,501               | 45,210                | 14.6          | 17.7           | 15.1        | 15.2        | 13.8        | 11.7        | 10.9        | 40,717                  |
| Meconium, moderate/heavy .....             | 3,132,501               | 156,049               | 50.5          | 53.5           | 50.6        | 49.7        | 49.1        | 51.7        | 52.3        | 40,717                  |
| Premature rupture of membrane .....        | 3,132,501               | 75,850                | 24.5          | 24.8           | 23.0        | 24.1        | 25.0        | 26.3        | 30.6        | 40,717                  |
| Abruptio placenta .....                    | 3,132,501               | 16,703                | 5.4           | 5.0            | 4.9         | 5.1         | 5.6         | 6.7         | 8.2         | 40,717                  |
| Placenta previa .....                      | 3,132,501               | 9,651                 | 3.1           | 1.1            | 1.7         | 2.7         | 4.1         | 6.2         | 8.3         | 40,717                  |
| Other excessive bleeding .....             | 3,132,501               | 17,533                | 5.7           | 5.5            | 5.4         | 5.5         | 5.7         | 6.3         | 7.8         | 40,717                  |
| Seizures during labor .....                | 3,132,501               | 951                   | 0.3           | 0.6            | 0.3         | 0.2         | 0.2         | 0.2         | 0.3         | 40,717                  |
| Precipitous labor .....                    | 3,132,501               | 60,427                | 19.5          | 13.2           | 18.1        | 19.3        | 21.9        | 23.8        | 23.0        | 40,717                  |
| Prolonged labor .....                      | 3,132,501               | 24,903                | 8.1           | 8.8            | 8.3         | 8.0         | 7.9         | 7.4         | 8.3         | 40,717                  |
| Dysfunctional labor .....                  | 3,132,501               | 84,394                | 27.3          | 26.8           | 25.7        | 27.8        | 27.7        | 28.1        | 31.3        | 40,717                  |
| Breech/Malpresentation .....               | 3,132,501               | 126,242               | 40.8          | 31.7           | 33.2        | 40.9        | 45.8        | 51.4        | 59.1        | 40,717                  |
| Cephalopelvic disproportion .....          | 3,132,501               | 58,220                | 18.8          | 17.9           | 17.6        | 19.8        | 19.3        | 18.6        | 20.7        | 40,717                  |
| Cord prolapse .....                        | 3,132,501               | 6,076                 | 2.0           | 1.6            | 1.8         | 1.9         | 2.1         | 2.4         | 2.7         | 40,717                  |
| Anesthetic complication <sup>4</sup> ..... | 2,834,420               | 1,848                 | 0.7           | 0.4            | 0.5         | 0.7         | 0.8         | 0.8         | 0.9         | 42,827                  |
| Fetal distress <sup>4</sup> .....          | 2,834,420               | 105,319               | 37.7          | 41.3           | 36.7        | 36.5        | 36.7        | 39.8        | 47.6        | 42,827                  |
| Black                                      |                         |                       |               |                |             |             |             |             |             |                         |
| Febrile .....                              | 605,970                 | 9,786                 | 16.3          | 20.5           | 15.9        | 15.8        | 14.6        | 13.0        | 10.6        | 5,735                   |
| Meconium, moderate/heavy .....             | 605,970                 | 45,488                | 75.8          | 76.8           | 72.8        | 75.1        | 78.8        | 81.0        | 76.8        | 5,735                   |
| Premature rupture of membrane .....        | 605,970                 | 18,460                | 30.8          | 30.6           | 28.3        | 30.4        | 33.7        | 35.1        | 36.1        | 5,735                   |
| Abruptio placenta .....                    | 605,970                 | 4,128                 | 6.9           | 6.2            | 6.0         | 7.1         | 7.8         | 9.1         | 9.9         | 5,735                   |
| Placenta previa .....                      | 605,970                 | 1,861                 | 3.1           | 1.1            | 1.9         | 3.3         | 5.2         | 6.8         | 10.8        | 5,735                   |
| Other excessive bleeding .....             | 605,970                 | 2,511                 | 4.2           | 3.5            | 3.8         | 4.0         | 4.9         | 5.7         | 8.2         | 5,735                   |
| Seizures during labor .....                | 605,970                 | 303                   | 0.5           | 0.9            | 0.5         | 0.4         | 0.3         | 0.4         | *           | 5,735                   |
| Precipitous labor .....                    | 605,970                 | 12,930                | 21.5          | 16.6           | 21.7        | 22.7        | 24.8        | 23.5        | 24.9        | 5,735                   |
| Prolonged labor .....                      | 605,970                 | 3,893                 | 6.5           | 6.9            | 6.4         | 6.2         | 6.6         | 6.2         | 6.0         | 5,735                   |
| Dysfunctional labor .....                  | 605,970                 | 15,292                | 25.5          | 25.3           | 24.3        | 24.9        | 27.2        | 28.8        | 27.9        | 5,735                   |
| Breech/Malpresentation .....               | 605,970                 | 18,256                | 30.4          | 22.5           | 25.7        | 31.0        | 39.5        | 46.3        | 53.8        | 5,735                   |
| Cephalopelvic disproportion .....          | 605,970                 | 8,644                 | 14.4          | 16.2           | 13.2        | 14.3        | 14.6        | 14.5        | 14.1        | 5,735                   |
| Cord prolapse .....                        | 605,970                 | 1,307                 | 2.2           | 1.7            | 1.9         | 2.1         | 2.6         | 3.6         | 3.7         | 5,735                   |
| Anesthetic complication <sup>4</sup> ..... | 565,873                 | 342                   | 0.6           | 0.5            | 0.5         | 0.6         | 0.8         | 0.9         | *           | 6,053                   |
| Fetal distress <sup>4</sup> .....          | 565,873                 | 28,085                | 50.2          | 50.7           | 46.2        | 48.8        | 54.1        | 58.5        | 63.0        | 6,053                   |

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.

<sup>1</sup> Total number of births to residents of areas reporting specified complication.<sup>2</sup> No response reported for the complications item.<sup>3</sup> Includes races other than white and black.<sup>4</sup> Texas does not report this complication.

NOTE: Race and Hispanic origin are reported separately on the birth certificate. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 38. Live births by attendant, place of delivery, and race and Hispanic origin of mother: United States, 1999

| Place of delivery and race and Hispanic origin of mother | All births | Physician |                    |                      | Midwife |                         |               | Other  | Unspecified |
|--|------------|-----------|--------------------|----------------------|---------|-------------------------|---------------|--------|-------------|
|  |            | Total     | Doctor of medicine | Doctor of osteopathy | Total   | Certified nurse midwife | Other midwife |        |             |
| <b>All races <sup>1</sup></b>                            |            |           |                    |                      |         |                         |               |        |             |
| Total .....  | 3,959,417  | 3,633,115 | 3,473,378          | 159,737              | 303,141 | 287,298                 | 15,843        | 21,889 | 1,272       |
| In hospital <sup>2</sup> .....                           | 3,923,059  | 3,628,084 | 3,469,267          | 158,817              | 282,352 | 278,364                 | 3,988         | 11,929 | 694         |
| Not in hospital .....                                    | 35,977     | 4,879     | 3,968              | 911                  | 20,647  | 8,799                   | 11,848        | 9,924  | 527         |
| Freestanding birthing center .....                       | 9,642      | 1,446     | 847                | 599                  | 7,952   | 5,437                   | 2,515         | 237    | 7           |
| Clinic or doctor's office .....                          | 464        | 274       | 254                | 20                   | 145     | 44                      | 101           | 43     | 2           |
| Residence .....  | 23,518     | 2,476     | 2,219              | 257                  | 12,123  | 3,064                   | 9,059         | 8,524  | 395         |
| Other .....  | 2,353      | 683       | 648                | 35                   | 427     | 254                     | 173           | 1,120  | 123         |
| Not specified .....                                      | 381        | 152       | 143                | 9                    | 142     | 135                     | 7             | 36     | 51          |
| <b>White, total</b>                                      |            |           |                    |                      |         |                         |               |        |             |
| Total .....  | 3,132,501  | 2,875,669 | 2,737,954          | 137,715              | 238,595 | 223,986                 | 14,609        | 17,348 | 889         |
| In hospital <sup>2</sup> .....                           | 3,100,598  | 2,871,951 | 2,735,099          | 136,852              | 218,858 | 215,717                 | 3,141         | 9,282  | 507         |
| Not in hospital .....                                    | 31,583     | 3,589     | 2,733              | 856                  | 19,609  | 8,147                   | 11,462        | 8,039  | 346         |
| Freestanding birthing center .....                       | 9,044      | 1,366     | 772                | 594                  | 7,454   | 5,046                   | 2,408         | 217    | 7           |
| Clinic or doctor's office .....                          | 384        | 226       | 212                | 14                   | 133     | 39                      | 94            | 24     | 1           |
| Residence .....  | 20,615     | 1,636     | 1,410              | 226                  | 11,661  | 2,864                   | 8,797         | 7,045  | 273         |
| Other .....  | 1,540      | 361       | 339                | 22                   | 361     | 198                     | 163           | 753    | 65          |
| Not specified .....                                      | 320        | 129       | 122                | 7                    | 128     | 122                     | 6             | 27     | 36          |
| <b>White, non-Hispanic</b>                               |            |           |                    |                      |         |                         |               |        |             |
| Total .....  | 2,346,450  | 2,168,573 | 2,055,891          | 112,682              | 164,600 | 152,598                 | 12,002        | 12,640 | 637         |
| In hospital <sup>2</sup> .....                           | 2,319,638  | 2,165,402 | 2,053,556          | 111,846              | 147,859 | 145,531                 | 2,328         | 5,976  | 401         |
| Not in hospital .....                                    | 26,535     | 3,058     | 2,228              | 830                  | 16,622  | 6,954                   | 9,668         | 6,646  | 209         |
| Freestanding birthing center .....                       | 6,999      | 1,241     | 655                | 586                  | 5,602   | 4,235                   | 1,367         | 155    | 1           |
| Clinic or doctor's office .....                          | 339        | 206       | 192                | 14                   | 118     | 34                      | 84            | 14     | 1           |
| Residence .....  | 18,161     | 1,369     | 1,153              | 216                  | 10,624  | 2,553                   | 8,071         | 5,983  | 185         |
| Other .....  | 1,036      | 242       | 228                | 14                   | 278     | 132                     | 146           | 494    | 22          |
| Not specified .....                                      | 277        | 113       | 107                | 6                    | 119     | 113                     | 6             | 18     | 27          |
| <b>Black, total</b>                                      |            |           |                    |                      |         |                         |               |        |             |
| Total .....  | 605,970    | 556,639   | 540,308            | 16,331               | 45,723  | 44,933                  | 790           | 3,341  | 267         |
| In hospital <sup>2</sup> .....                           | 602,652    | 555,527   | 539,237            | 16,290               | 45,092  | 44,477                  | 615           | 1,903  | 130         |
| Not in hospital .....                                    | 3,272      | 1,094     | 1,054              | 40                   | 625     | 451                     | 174           | 1,429  | 124         |
| Freestanding birthing center .....                       | 391        | 61        | 59                 | 2                    | 316     | 258                     | 58            | 14     | -           |
| Clinic or doctor's office .....                          | 24         | 16        | 14                 | 2                    | 8       | 2                       | 6             | -      | -           |
| Residence .....  | 2,239      | 733       | 708                | 25                   | 259     | 153                     | 106           | 1,169  | 78          |
| Other .....  | 618        | 284       | 273                | 11                   | 42      | 38                      | 4             | 246    | 46          |
| Not specified .....                                      | 46         | 18        | 17                 | 1                    | 6       | 5                       | 1             | 9      | 13          |
| <b>Black, non-Hispanic</b>                               |            |           |                    |                      |         |                         |               |        |             |
| Total .....  | 588,981    | 542,427   | 526,850            | 15,577               | 43,037  | 42,280                  | 757           | 3,268  | 249         |
| In hospital <sup>2</sup> .....                           | 585,821    | 541,350   | 525,812            | 15,538               | 42,474  | 41,866                  | 608           | 1,871  | 126         |
| Not in hospital .....                                    | 3,123      | 1,060     | 1,022              | 38                   | 558     | 410                     | 148           | 1,390  | 115         |
| Freestanding birthing center .....                       | 362        | 61        | 59                 | 2                    | 288     | 235                     | 53            | 13     | -           |
| Clinic or doctor's office .....                          | 24         | 16        | 14                 | 2                    | 8       | 2                       | 6             | -      | -           |
| Residence .....  | 2,143      | 706       | 683                | 23                   | 224     | 139                     | 85            | 1,138  | 75          |
| Other .....  | 594        | 277       | 266                | 11                   | 38      | 34                      | 4             | 239    | 40          |
| Not specified .....                                      | 37         | 17        | 16                 | 1                    | 5       | 4                       | 1             | 7      | 8           |
| <b>Hispanic <sup>3</sup></b>                             |            |           |                    |                      |         |                         |               |        |             |
| Total .....  | 764,339    | 687,152   | 663,212            | 23,940               | 72,838  | 70,449                  | 2,389         | 4,181  | 168         |
| In hospital <sup>2</sup> .....                           | 759,949    | 686,658   | 662,738            | 23,920               | 70,151  | 69,379                  | 772           | 3,075  | 65          |
| Not in hospital .....                                    | 4,368      | 484       | 464                | 20                   | 2,682   | 1,065                   | 1,617         | 1,099  | 103         |
| Freestanding birthing center .....                       | 2,048      | 122       | 117                | 5                    | 1,857   | 809                     | 1,048         | 63     | 6           |
| Clinic or doctor's office .....                          | 43         | 18        | 18                 | -                    | 15      | 5                       | 10            | 10     | -           |
| Residence .....  | 1,821      | 227       | 220                | 7                    | 737     | 195                     | 542           | 797    | 60          |
| Other .....  | 456        | 117       | 109                | 8                    | 73      | 56                      | 17            | 229    | 37          |
| Not specified .....                                      | 22         | 10        | 10                 | -                    | 5       | 5                       | -             | 7      | -           |

- Quantity zero.

<sup>1</sup> Includes races other than white and black and origin not stated.<sup>2</sup> Includes births occurring en route to or on arrival at hospital.<sup>3</sup> Includes all persons of Hispanic origin of any race.

**Table 39. Live births by method of delivery and rates of cesarean delivery and vaginal birth after previous cesarean delivery, by race and Hispanic origin of mother: United States, 1989-99**

| Year and race and Hispanic origin of mother | Births by method of delivery |           |                         |          |         |         |            | Cesarean delivery rate |                      | Rate of vaginal birth after previous cesarean <sup>3</sup> |
|---|------------------------------|-----------|-------------------------|----------|---------|---------|------------|------------------------|----------------------|--|
|   | All births                   | Vaginal   |                         | Cesarean |         |         | Not stated | Total <sup>1</sup>     | Primary <sup>2</sup> |  |
|   |                              | Total     | After previous cesarean | Total    | Primary | Repeat  |            |                        |                      |  |
| <b>All races<sup>4</sup></b>                |                              |           |                         |          |         |         |            |                        |                      |  |
| 1999  | 3,959,417                    | 3,063,870 | 97,680                  | 862,086  | 542,080 | 320,006 | 33,461     | 22.0                   | 15.5                 | 23.4   |
| 1998  | 3,941,553                    | 3,078,537 | 108,903                 | 825,870  | 519,975 | 305,895 | 37,146     | 21.2                   | 14.9                 | 26.3   |
| 1997  | 3,880,894                    | 3,046,621 | 112,145                 | 799,033  | 502,526 | 296,507 | 35,240     | 20.8                   | 14.6                 | 27.4   |
| 1996  | 3,891,494                    | 3,061,092 | 116,045                 | 797,119  | 503,724 | 293,395 | 33,283     | 20.7                   | 14.6                 | 28.3   |
| 1995  | 3,899,589                    | 3,063,724 | 112,439                 | 806,722  | 510,104 | 296,618 | 29,143     | 20.8                   | 14.7                 | 27.5   |
| 1994  | 3,952,767                    | 3,087,576 | 110,341                 | 830,517  | 520,647 | 309,870 | 34,674     | 21.2                   | 14.9                 | 26.3   |
| 1993  | 4,000,240                    | 3,098,796 | 103,581                 | 861,987  | 539,251 | 322,736 | 39,457     | 21.8                   | 15.3                 | 24.3   |
| 1992  | 4,065,014                    | 3,100,710 | 97,549                  | 888,622  | 554,662 | 333,960 | 75,682     | 22.3                   | 15.6                 | 22.6   |
| 1991  | 4,110,907                    | 3,100,891 | 90,690                  | 905,077  | 569,195 | 335,882 | 104,939    | 22.6                   | 15.9                 | 21.3   |
| 1990 <sup>5</sup>                           | 4,110,563                    | 3,111,421 | 84,299                  | 914,096  | 575,066 | 339,030 | 85,046     | 22.7                   | 16.0                 | 19.9   |
| 1989 <sup>6</sup>                           | 3,798,734                    | 2,793,463 | 71,019                  | 826,955  | 521,873 | 305,082 | 178,316    | 22.8                   | 16.1                 | 18.9   |
| <b>White, total</b>                         |                              |           |                         |          |         |         |            |                        |                      |  |
| 1999  | 3,132,501                    | 2,426,092 | 77,158                  | 678,952  | 424,148 | 254,804 | 27,457     | 21.9                   | 15.3                 | 23.2   |
| 1998  | 3,118,727                    | 2,440,113 | 86,495                  | 649,987  | 406,439 | 243,548 | 28,627     | 21.0                   | 14.7                 | 26.2   |
| 1997  | 3,072,640                    | 2,415,236 | 89,522                  | 630,613  | 393,603 | 237,010 | 26,791     | 20.7                   | 14.5                 | 27.4   |
| 1996  | 3,093,057                    | 2,434,079 | 93,783                  | 631,409  | 395,851 | 235,558 | 27,569     | 20.6                   | 14.5                 | 28.5   |
| 1995  | 3,098,885                    | 2,435,191 | 90,940                  | 639,818  | 401,098 | 238,720 | 23,876     | 20.8                   | 14.6                 | 27.6   |
| 1994  | 3,121,004                    | 2,435,965 | 88,471                  | 656,400  | 407,946 | 248,454 | 28,639     | 21.2                   | 14.8                 | 26.3   |
| 1993  | 3,149,833                    | 2,435,229 | 82,995                  | 682,355  | 423,540 | 258,815 | 32,249     | 21.9                   | 15.3                 | 24.3   |
| 1992  | 3,201,678                    | 2,434,959 | 77,977                  | 705,841  | 437,398 | 268,443 | 60,878     | 22.5                   | 15.7                 | 22.5   |
| 1991  | 3,241,273                    | 2,434,900 | 72,564                  | 723,088  | 452,534 | 270,554 | 83,285     | 22.9                   | 16.1                 | 21.1   |
| 1990 <sup>5</sup>                           | 3,252,473                    | 2,453,857 | 67,191                  | 732,713  | 458,656 | 274,057 | 65,903     | 23.0                   | 16.1                 | 19.7   |
| 1989 <sup>6</sup>                           | 3,022,537                    | 2,212,843 | 56,851                  | 667,114  | 418,177 | 248,937 | 142,580    | 23.2                   | 16.2                 | 18.6   |
| <b>White, non-Hispanic</b>                  |                              |           |                         |          |         |         |            |                        |                      |  |
| 1999  | 2,346,450                    | 1,810,682 | 59,480                  | 514,051  | 327,106 | 186,945 | 21,717     | 22.1                   | 15.7                 | 24.1   |
| 1998  | 2,361,462                    | 1,842,420 | 67,787                  | 495,550  | 315,138 | 180,412 | 23,492     | 21.2                   | 15.1                 | 27.3   |
| 1997  | 2,333,363                    | 1,829,213 | 70,284                  | 481,982  | 305,605 | 176,377 | 22,168     | 20.9                   | 14.8                 | 28.5   |
| 1996  | 2,358,989                    | 1,851,058 | 73,973                  | 485,530  | 308,482 | 177,048 | 22,401     | 20.8                   | 14.8                 | 29.5   |
| 1995  | 2,382,638                    | 1,867,024 | 72,124                  | 496,103  | 313,933 | 182,170 | 19,511     | 21.0                   | 14.9                 | 28.4   |
| 1994  | 2,438,855                    | 1,896,609 | 71,597                  | 518,021  | 324,236 | 193,785 | 24,225     | 21.5                   | 15.1                 | 27.0   |
| 1993  | 2,472,031                    | 1,902,433 | 67,536                  | 542,013  | 338,236 | 203,777 | 27,585     | 22.2                   | 15.6                 | 24.9   |
| 1992 <sup>8</sup>                           | 2,527,207                    | 1,916,414 | 63,828                  | 566,788  | 352,470 | 214,318 | 44,005     | 22.8                   | 16.0                 | 22.9   |
| 1991 <sup>8</sup>                           | 2,589,878                    | 1,941,726 | 60,174                  | 587,802  | 368,721 | 219,081 | 60,350     | 23.2                   | 16.4                 | 21.5   |
| 1990 <sup>5,9</sup>                         | 2,626,500                    | 1,972,754 | 55,952                  | 603,467  | 378,508 | 224,959 | 50,279     | 23.4                   | 16.5                 | 19.9   |
| 1989 <sup>6,10</sup>                        | 2,526,367                    | 1,806,753 | 47,559                  | 556,585  | 349,858 | 206,727 | 163,029    | 23.6                   | 16.6                 | 18.7   |
| <b>Black, total</b>                         |                              |           |                         |          |         |         |            |                        |                      |  |
| 1999  | 605,970                      | 462,401   | 15,438                  | 139,471  | 88,269  | 51,202  | 4,098      | 23.2                   | 16.5                 | 23.2   |
| 1998  | 609,902                      | 470,088   | 17,062                  | 135,727  | 86,438  | 49,289  | 4,087      | 22.4                   | 16.0                 | 25.7   |
| 1997  | 599,913                      | 466,001   | 16,986                  | 130,142  | 83,025  | 47,117  | 3,770      | 21.8                   | 15.6                 | 26.5   |
| 1996  | 594,781                      | 462,378   | 16,866                  | 128,357  | 82,646  | 45,711  | 4,046      | 21.7                   | 15.6                 | 27.0   |
| 1995  | 603,139                      | 468,984   | 16,224                  | 130,482  | 84,441  | 46,041  | 3,673      | 21.8                   | 15.7                 | 26.1   |
| 1994  | 636,391                      | 493,879   | 16,970                  | 138,067  | 88,636  | 49,431  | 4,445      | 21.8                   | 15.7                 | 25.6   |
| 1993  | 658,875                      | 509,816   | 16,179                  | 143,452  | 91,677  | 51,775  | 5,607      | 22.0                   | 15.7                 | 23.8   |
| 1992  | 673,633                      | 514,929   | 15,382                  | 146,480  | 93,165  | 53,315  | 12,224     | 22.1                   | 15.7                 | 22.4   |
| 1991  | 682,602                      | 519,047   | 14,213                  | 145,583  | 92,645  | 52,938  | 17,972     | 21.9                   | 15.5                 | 21.2   |
| 1990 <sup>5</sup>                           | 679,236                      | 516,581   | 13,496                  | 146,472  | 93,476  | 52,996  | 16,183     | 22.1                   | 15.7                 | 20.3   |
| 1989 <sup>6</sup>                           | 611,147                      | 452,291   | 11,104                  | 127,907  | 82,695  | 45,212  | 30,319     | 22.0                   | 15.8                 | 19.7   |

See footnotes at end of table.

**Table 39. Live births by method of delivery and rates of cesarean delivery and vaginal birth after previous cesarean delivery, by race and Hispanic origin of mother: United States, 1989-99 --Con.**

| Year and race and Hispanic origin of mother | Births by method of delivery |         |                         |          |         |        |            | Cesarean delivery rate |                      | Rate of vaginal birth after previous cesarean <sup>3</sup> |
|---|------------------------------|---------|-------------------------|----------|---------|--------|------------|------------------------|----------------------|--|
|   | All births                   | Vaginal |                         | Cesarean |         |        | Not stated | Total <sup>1</sup>     | Primary <sup>2</sup> |  |
|   |                              | Total   | After previous cesarean | Total    | Primary | Repeat |            |                        |                      |  |
| <b>Black, non-Hispanic</b>                  |                              |         |                         |          |         |        |            |                        |                      |  |
| 1999  | 588,981                      | 449,580 | 14,999                  | 135,508  | 85,898  | 49,610 | 3,893      | 23.2                   | 16.5                 | 23.2   |
| 1998  | 593,127                      | 457,186 | 16,510                  | 131,999  | 84,169  | 47,830 | 3,942      | 22.4                   | 16.0                 | 25.7   |
| 1997  | 581,431                      | 451,744 | 16,353                  | 126,138  | 80,599  | 45,539 | 3,549      | 21.8                   | 15.6                 | 26.4   |
| 1996  | 578,099                      | 449,544 | 16,322                  | 124,836  | 80,457  | 44,379 | 3,719      | 21.7                   | 15.7                 | 26.9   |
| 1995  | 587,781                      | 457,104 | 15,721                  | 127,171  | 82,395  | 44,776 | 3,506      | 21.8                   | 15.7                 | 26.0   |
| 1994  | 619,198                      | 480,551 | 16,478                  | 134,526  | 86,411  | 48,115 | 4,121      | 21.9                   | 15.7                 | 25.5   |
| 1993  | 641,273                      | 496,333 | 15,675                  | 139,702  | 89,315  | 50,387 | 5,238      | 22.0                   | 15.7                 | 23.7   |
| 1992 <sup>8</sup>                           | 657,450                      | 502,669 | 14,950                  | 143,153  | 91,086  | 52,067 | 11,628     | 22.2                   | 15.7                 | 22.3   |
| 1991 <sup>8</sup>                           | 666,758                      | 507,522 | 13,847                  | 142,417  | 90,664  | 51,753 | 16,819     | 21.9                   | 15.5                 | 21.1   |
| 1990 <sup>5,9</sup>                         | 661,701                      | 503,720 | 13,157                  | 142,838  | 91,175  | 51,663 | 15,143     | 22.1                   | 15.7                 | 20.3   |
| 1989 <sup>6,10</sup>                        | 611,269                      | 440,310 | 10,726                  | 125,290  | 81,177  | 44,113 | 45,669     | 22.2                   | 15.9                 | 19.6   |
| <b>Hispanic<sup>7</sup></b>                 |                              |         |                         |          |         |        |            |                        |                      |  |
| 1999  | 764,339                      | 599,118 | 16,915                  | 161,035  | 94,433  | 66,602 | 4,186      | 21.2                   | 14.0                 | 20.3   |
| 1998  | 734,661                      | 580,143 | 17,803                  | 150,317  | 88,763  | 61,554 | 4,201      | 20.6                   | 13.6                 | 22.4   |
| 1997  | 709,767                      | 563,114 | 17,942                  | 142,907  | 84,410  | 58,497 | 3,746      | 20.2                   | 13.4                 | 23.5   |
| 1996  | 701,339                      | 558,105 | 18,491                  | 139,554  | 83,392  | 56,162 | 3,680      | 20.0                   | 13.4                 | 24.8   |
| 1995  | 679,768                      | 539,731 | 17,396                  | 136,640  | 82,662  | 53,978 | 3,397      | 20.2                   | 13.7                 | 24.4   |
| 1994  | 665,026                      | 525,928 | 16,206                  | 135,569  | 81,961  | 53,608 | 3,529      | 20.5                   | 13.9                 | 23.2   |
| 1993  | 654,418                      | 514,493 | 14,586                  | 136,279  | 82,576  | 53,703 | 3,646      | 20.9                   | 14.2                 | 21.4   |
| 1992 <sup>8</sup>                           | 643,271                      | 494,338 | 13,111                  | 133,369  | 81,211  | 52,158 | 15,564     | 21.2                   | 14.4                 | 20.1   |
| 1991 <sup>8</sup>                           | 623,085                      | 472,126 | 11,615                  | 129,752  | 80,228  | 49,524 | 21,207     | 21.6                   | 14.8                 | 19.0   |
| 1990 <sup>5,9</sup>                         | 595,073                      | 458,242 | 10,395                  | 122,969  | 76,027  | 46,942 | 13,862     | 21.2                   | 14.5                 | 18.1   |
| 1989 <sup>6,10</sup>                        | 532,249                      | 385,462 | 8,549                   | 105,268  | 64,905  | 40,363 | 41,519     | 21.5                   | 14.7                 | 17.5   |

<sup>1</sup> Percent of all live births by cesarean delivery.

<sup>2</sup> Number of primary cesareans per 100 live births to women who have not had a previous cesarean.

<sup>3</sup> Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.

<sup>4</sup> Includes races other than white and black and origin not stated.

<sup>5</sup> Excludes data for Oklahoma, which did not report method of delivery on the birth certificate.

<sup>6</sup> Excludes data for Louisiana, Maryland, Nebraska, Nevada, and Oklahoma, which did not report method of delivery on the birth certificate.

<sup>7</sup> Includes all persons of Hispanic origin of any race.

<sup>8</sup> Excludes data for New Hampshire which did not report Hispanic origin.

<sup>9</sup> Excludes data for New Hampshire and Oklahoma which did not report Hispanic origin.

<sup>10</sup> Excludes data for Louisiana, New Hampshire, and Oklahoma, which did not report Hispanic origin.

**Table 40. Live births by method of delivery, and rates of cesarean delivery and vaginal birth after previous cesarean delivery, by age and race and Hispanic origin of mother: United States, 1999**

| Age and race and Hispanic origin of mother | Births by method of delivery |           |                         |          |         |         |            | Cesarean delivery rate |                      | Rate of vaginal birth after previous cesarean <sup>3</sup> |
|--|------------------------------|-----------|-------------------------|----------|---------|---------|------------|------------------------|----------------------|--|
|  | All births                   | Vaginal   |                         | Cesarean |         |         | Not stated | Total <sup>1</sup>     | Primary <sup>2</sup> |  |
|  |                              | Total     | After previous cesarean | Total    | Primary | Repeat  |            |                        |                      |  |
| All races <sup>4</sup>                     | 3,959,417                    | 3,063,870 | 97,680                  | 862,086  | 542,080 | 320,006 | 33,461     | 22.0                   | 15.5                 | 23.4   |
| Under 20 years                             | 485,104                      | 408,830   | 3,128                   | 72,258   | 64,254  | 8,004   | 4,016      | 15.0                   | 13.7                 | 28.1   |
| 20-24 years                                | 981,929                      | 799,209   | 18,945                  | 174,252  | 120,238 | 54,014  | 8,468      | 17.9                   | 13.4                 | 26.0   |
| 25-29 years                                | 1,078,252                    | 836,383   | 27,891                  | 232,492  | 144,759 | 87,733  | 9,377      | 21.8                   | 15.2                 | 24.1   |
| 30-34 years                                | 892,400                      | 660,715   | 29,242                  | 224,387  | 126,681 | 97,706  | 7,298      | 25.4                   | 16.7                 | 23.0   |
| 35-39 years                                | 434,294                      | 302,099   | 15,703                  | 128,610  | 68,532  | 60,078  | 3,585      | 29.9                   | 19.3                 | 20.7   |
| 40-54 years                                | 87,438                       | 56,634    | 2,771                   | 30,087   | 17,616  | 12,471  | 717        | 34.7                   | 24.6                 | 18.2   |
| White, total                               | 3,132,501                    | 2,426,092 | 77,158                  | 678,952  | 424,148 | 254,804 | 27,457     | 21.9                   | 15.3                 | 23.2   |
| Under 20 years                             | 342,627                      | 289,793   | 1,950                   | 49,886   | 44,663  | 5,223   | 2,948      | 14.7                   | 13.4                 | 27.2   |
| 20-24 years                                | 748,371                      | 610,935   | 13,539                  | 130,749  | 91,163  | 39,586  | 6,687      | 17.6                   | 13.2                 | 25.5   |
| 25-29 years                                | 873,654                      | 678,889   | 21,983                  | 186,903  | 116,674 | 70,229  | 7,862      | 21.6                   | 15.1                 | 23.8   |
| 30-34 years                                | 739,948                      | 549,915   | 24,213                  | 183,763  | 102,932 | 80,831  | 6,270      | 25.0                   | 16.4                 | 23.1   |
| 35-39 years                                | 356,959                      | 250,215   | 13,179                  | 103,671  | 54,743  | 48,928  | 3,073      | 29.3                   | 18.8                 | 21.2   |
| 40-54 years                                | 70,942                       | 46,345    | 2,294                   | 23,980   | 13,973  | 10,007  | 617        | 34.1                   | 24.1                 | 18.6   |
| White, non-Hispanic                        | 2,346,450                    | 1,810,682 | 59,480                  | 514,051  | 327,106 | 186,945 | 21,717     | 22.1                   | 15.7                 | 24.1   |
| Under 20 years                             | 214,971                      | 180,801   | 1,101                   | 31,961   | 28,984  | 2,977   | 2,209      | 15.0                   | 13.9                 | 27.0   |
| 20-24 years                                | 514,386                      | 418,584   | 9,112                   | 90,579   | 64,658  | 25,921  | 5,223      | 17.8                   | 13.6                 | 26.0   |
| 25-29 years                                | 663,569                      | 515,878   | 16,271                  | 141,398  | 91,998  | 49,400  | 6,293      | 21.5                   | 15.6                 | 24.8   |
| 30-34 years                                | 600,830                      | 449,181   | 19,850                  | 146,621  | 84,695  | 61,926  | 5,028      | 24.6                   | 16.5                 | 24.3   |
| 35-39 years                                | 294,590                      | 208,110   | 11,191                  | 84,028   | 45,256  | 38,772  | 2,452      | 28.8                   | 18.7                 | 22.4   |
| 40-54 years                                | 58,104                       | 38,128    | 1,955                   | 19,464   | 11,515  | 7,949   | 512        | 33.8                   | 24.1                 | 19.7   |
| Black, total                               | 605,970                      | 462,401   | 15,438                  | 139,471  | 88,269  | 51,202  | 4,098      | 23.2                   | 16.5                 | 23.2   |
| Under 20 years                             | 125,143                      | 103,881   | 1,082                   | 20,431   | 17,824  | 2,607   | 831        | 16.4                   | 14.8                 | 29.3   |
| 20-24 years                                | 193,211                      | 154,052   | 4,738                   | 37,854   | 24,777  | 13,077  | 1,305      | 19.7                   | 14.2                 | 26.6   |
| 25-29 years                                | 138,868                      | 103,988   | 4,472                   | 33,889   | 19,551  | 14,338  | 991        | 24.6                   | 16.4                 | 23.8   |
| 30-34 years                                | 91,486                       | 63,924    | 3,292                   | 26,960   | 14,884  | 12,076  | 602        | 29.7                   | 19.7                 | 21.4   |
| 35-39 years                                | 47,277                       | 30,488    | 1,556                   | 16,479   | 8,957   | 7,522   | 310        | 35.1                   | 23.6                 | 17.1   |
| 40-54 years                                | 9,985                        | 6,068     | 298                     | 3,858    | 2,276   | 1,582   | 59         | 38.9                   | 28.3                 | 15.9   |
| Black, non-Hispanic                        | 588,981                      | 449,580   | 14,999                  | 135,508  | 85,898  | 49,610  | 3,893      | 23.2                   | 16.5                 | 23.2   |
| Under 20 years                             | 122,175                      | 101,389   | 1,051                   | 19,988   | 17,426  | 2,562   | 798        | 16.5                   | 14.8                 | 29.1   |
| 20-24 years                                | 188,247                      | 150,035   | 4,630                   | 36,965   | 24,169  | 12,796  | 1,247      | 19.8                   | 14.3                 | 26.6   |
| 25-29 years                                | 134,784                      | 100,923   | 4,347                   | 32,920   | 19,020  | 13,900  | 941        | 24.6                   | 16.5                 | 23.8   |
| 30-34 years                                | 88,403                       | 61,808    | 3,181                   | 26,032   | 14,446  | 11,586  | 563        | 29.6                   | 19.8                 | 21.5   |
| 35-39 years                                | 45,746                       | 29,558    | 1,506                   | 15,898   | 8,655   | 7,243   | 290        | 35.0                   | 23.6                 | 17.2   |
| 40-54 years                                | 9,626                        | 5,867     | 284                     | 3,705    | 2,182   | 1,523   | 54         | 38.7                   | 28.1                 | 15.7   |
| Hispanic <sup>5</sup>                      | 764,339                      | 599,118   | 16,915                  | 161,035  | 94,433  | 66,602  | 4,186      | 21.2                   | 14.0                 | 20.3   |
| Under 20 years                             | 127,402                      | 108,863   | 848                     | 17,905   | 15,660  | 2,245   | 634        | 14.1                   | 12.7                 | 27.4   |
| 20-24 years                                | 231,475                      | 190,436   | 4,373                   | 39,841   | 26,277  | 13,564  | 1,198      | 17.3                   | 12.4                 | 24.4   |
| 25-29 years                                | 203,985                      | 158,330   | 5,518                   | 44,513   | 23,900  | 20,613  | 1,142      | 21.9                   | 13.5                 | 21.1   |
| 30-34 years                                | 131,369                      | 94,870    | 4,066                   | 35,731   | 17,320  | 18,411  | 768        | 27.4                   | 16.0                 | 18.1   |
| 35-39 years                                | 58,146                       | 39,031    | 1,812                   | 18,733   | 8,939   | 9,794   | 382        | 32.4                   | 19.4                 | 15.6   |
| 40-54 years                                | 11,962                       | 7,588     | 298                     | 4,312    | 2,337   | 1,975   | 62         | 36.2                   | 24.3                 | 13.1   |

<sup>1</sup> Percent of all live births by cesarean delivery.<sup>2</sup> Number of primary cesareans per 100 live births to women who have not had a previous cesarean.<sup>3</sup> Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.<sup>4</sup> Includes races other than white and black and origin not stated.<sup>5</sup> Includes all persons of Hispanic origin of any race.



**Table 41. Rates of cesarean delivery and vaginal birth after previous cesarean delivery by race and Hispanic origin of mother: United States, each State and territory, 1999**

[By place of residence]

| State                            | Cesarean delivery rate <sup>1</sup> |       |              |       |              |                       | Rate of vaginal births after previous cesarean <sup>2</sup> |       |              |       |              |                       |
|----------------------------------|-------------------------------------|-------|--------------|-------|--------------|-----------------------|---|-------|--------------|-------|--------------|-----------------------|
|                                  | All races <sup>3</sup>              | White |              | Black |              | Hispanic <sup>4</sup> | All races <sup>3</sup>                                      | White |              | Black |              | Hispanic <sup>4</sup> |
|                                  |                                     | Total | Non-Hispanic | Total | Non-Hispanic |                       |   | Total | Non-Hispanic | Total | Non-Hispanic |                       |
| United States <sup>5</sup> ..... | 22.0                                | 21.9  | 22.1         | 23.2  | 23.2         | 21.2                  | 23.4  | 23.2  | 24.1         | 23.2  | 23.2         | 20.3                  |
| Alabama .....                    | 24.8                                | 25.4  | 25.6         | 23.5  | 23.6         | 20.4                  | 19.1  | 18.4  | 18.2         | 20.7  | 20.7         | 24.1                  |
| Alaska .....                     | 14.8                                | 16.9  | 16.7         | 16.0  | 16.0         | 17.1                  | 32.8  | 27.2  | 27.7         | *     | *            | 24.1                  |
| Arizona .....                    | 17.8                                | 17.9  | 19.4         | 18.9  | 19.1         | 16.0                  | 22.7  | 21.9  | 22.4         | 16.4  | 16.5         | 21.2                  |
| Arkansas .....                   | 25.4                                | 24.9  | 25.3         | 27.5  | 27.5         | 19.3                  | 15.5  | 15.9  | 15.3         | 13.8  | 13.8         | 24.1                  |
| California .....                 | 22.7                                | 22.5  | 23.5         | 25.9  | 26.0         | 21.9                  | 16.3  | 16.0  | 16.9         | 14.2  | 14.1         | 15.5                  |
| Colorado .....                   | 17.3                                | 17.3  | 17.9         | 19.2  | 19.3         | 15.8                  | 31.0  | 31.6  | 30.1         | 25.6  | 25.2         | 34.9                  |
| Connecticut .....                | 21.0                                | 21.0  | 21.1         | 21.4  | 21.5         | 19.0                  | 27.6  | 27.4  | 27.6         | 27.6  | 27.7         | 26.0                  |
| Delaware .....                   | 23.0                                | 23.2  | 23.5         | 23.0  | 23.0         | 21.0                  | 28.8  | 28.5  | 27.7         | 28.3  | 28.5         | 34.2                  |
| District of Columbia ...         | 22.2                                | 19.9  | 23.9         | 23.2  | 23.2         | 12.9                  | 27.3  | 34.6  | 25.0         | 25.2  | 25.0         | 50.9                  |
| Florida .....                    | 23.8                                | 24.2  | 23.4         | 22.5  | 22.5         | 26.4                  | 18.7  | 18.5  | 20.4         | 19.1  | 19.2         | 14.5                  |
| Georgia .....                    | 21.7                                | 21.5  | 22.2         | 22.3  | 22.3         | 16.6                  | 21.6  | 21.9  | 21.2         | 20.6  | 20.7         | 26.8                  |
| Hawaii .....                     | 13.8                                | 17.2  | 17.0         | 16.6  | 16.7         | 16.0                  | 32.4  | 24.2  | 24.0         | *     | *            | 29.6                  |
| Idaho .....                      | 17.3                                | 17.1  | 17.0         | *     | *            | 18.0                  | 33.4  | 33.6  | 33.3         | *     | *            | 35.4                  |
| Illinois .....                   | 20.1                                | 20.1  | 20.9         | 20.2  | 20.2         | 17.8                  | 28.8  | 29.2  | 28.8         | 27.2  | 27.2         | 30.4                  |
| Indiana .....                    | 20.5                                | 20.5  | 20.5         | 20.5  | 20.5         | 19.5                  | 24.6  | 24.5  | 24.4         | 24.9  | 24.9         | 26.7                  |
| Iowa .....                       | 19.9                                | 20.0  | 20.0         | 18.7  | 18.1         | 19.6                  | 28.2  | 28.3  | 28.5         | 27.9  | 28.1         | 25.9                  |
| Kansas .....                     | 21.2                                | 21.3  | 21.4         | 21.4  | 21.5         | 20.2                  | 19.9  | 19.4  | 19.1         | 23.4  | 23.5         | 20.0                  |
| Kentucky .....                   | 23.3                                | 23.4  | 23.4         | 23.2  | 23.2         | 21.6                  | 21.5  | 21.0  | 20.8         | 25.6  | 25.6         | 34.9                  |
| Louisiana .....                  | 26.8                                | 27.4  | 27.4         | 26.0  | 26.1         | 28.9                  | 11.3  | 8.6   | 8.5          | 15.2  | 15.2         | *                     |
| Maine .....                      | 21.5                                | 21.5  | 21.5         | 28.3  | 26.7         | 28.9                  | 23.5  | 23.6  | 23.5         | *     | *            | *                     |
| Maryland .....                   | 23.2                                | 22.5  | 22.8         | 24.8  | 24.8         | 19.7                  | 26.0  | 26.6  | 26.4         | 24.8  | 24.8         | 28.8                  |
| Massachusetts .....              | 22.4                                | 22.4  | 22.8         | 24.0  | 23.8         | 20.4                  | 28.3  | 28.1  | 28.2         | 28.2  | 30.9         | 24.9                  |
| Michigan .....                   | 21.0                                | 21.1  | 21.3         | 20.4  | 20.4         | 18.5                  | 22.8  | 22.3  | 21.8         | 25.5  | 25.5         | 26.2                  |
| Minnesota .....                  | 18.9                                | 19.4  | 19.5         | 18.8  | 18.7         | 17.6                  | 25.7  | 25.4  | 25.9         | 25.2  | 25.1         | 23.5                  |
| Mississippi .....                | 27.3                                | 28.1  | 28.3         | 26.4  | 26.4         | 21.4                  | 13.8  | 13.5  | 13.4         | 14.0  | 14.0         | *                     |
| Missouri .....                   | 21.7                                | 22.1  | 22.2         | 19.9  | 19.9         | 18.2                  | 25.5  | 25.0  | 24.8         | 29.2  | 29.1         | 30.2                  |
| Montana .....                    | 18.8                                | 18.3  | 18.3         | *     | *            | 21.1                  | 31.7  | 32.6  | 33.5         | *     | *            | *                     |
| Nebraska .....                   | 22.0                                | 22.1  | 22.4         | 20.6  | 20.7         | 19.6                  | 23.9  | 24.2  | 23.4         | 23.6  | 23.1         | 27.8                  |
| Nevada .....                     | 21.8                                | 21.3  | 22.5         | 27.1  | 27.1         | 19.2                  | 18.5  | 18.7  | 18.2         | 17.8  | 18.5         | 19.1                  |
| New Hampshire .....              | 19.9                                | 19.9  | 20.0         | 25.4  | 25.0         | 21.1                  | 36.3  | 36.5  | 36.5         | *     | *            | *                     |
| New Jersey .....                 | 26.3                                | 26.3  | 26.4         | 26.6  | 26.1         | 26.3                  | 30.0  | 29.5  | 29.6         | 32.1  | 33.9         | 27.5                  |
| New Mexico .....                 | 16.4                                | 16.8  | 17.4         | 18.8  | 19.4         | 16.4                  | 30.9  | 28.8  | 29.9         | *     | *            | 28.2                  |
| New York .....                   | 23.6                                | 23.6  | 24.3         | 24.3  | 24.4         | 22.7                  | 29.3  | 29.9  | 29.5         | 27.4  | 28.0         | 28.4                  |
| North Carolina .....             | 22.7                                | 22.3  | 22.9         | 23.9  | 23.8         | 18.1                  | 24.0  | 24.0  | 23.5         | 23.7  | 23.7         | 27.8                  |
| North Dakota .....               | 19.5                                | 19.5  | 19.8         | *     | *            | *                     | 31.8  | 32.0  | 31.8         | *     | *            | *                     |
| Ohio .....                       | 19.4                                | 19.4  | 19.4         | 19.2  | 19.2         | 18.8                  | 32.2  | 31.3  | 31.3         | 36.8  | 36.5         | 31.1                  |
| Oklahoma .....                   | 24.1                                | 24.0  | 24.4         | 24.6  | 24.6         | 21.5                  | 18.9  | 18.5  | 18.4         | 20.1  | 20.6         | 19.1                  |
| Oregon .....                     | 18.4                                | 18.3  | 18.5         | 18.4  | 18.0         | 17.7                  | 32.4  | 32.3  | 31.4         | 34.6  | 35.0         | 36.9                  |
| Pennsylvania .....               | 20.9                                | 21.2  | 21.4         | 20.1  | 20.1         | 18.4                  | 30.5  | 29.6  | 29.5         | 35.4  | 35.4         | 31.2                  |
| Rhode Island .....               | 20.5                                | 20.7  | 21.1         | 20.7  | 20.6         | 20.1                  | 26.6  | 26.7  | 26.1         | 22.9  | *            | 29.9                  |
| South Carolina .....             | 24.2                                | 24.3  | 24.6         | 24.1  | 24.1         | 18.8                  | 17.9  | 17.5  | 17.1         | 18.3  | 18.3         | 27.2                  |
| South Dakota .....               | 22.3                                | 22.6  | 22.7         | *     | *            | 19.0                  | 23.0  | 23.7  | 23.6         | *     | *            | *                     |
| Tennessee .....                  | 24.0                                | 24.1  | 24.3         | 23.9  | 23.9         | 20.4                  | 21.0  | 20.0  | 20.0         | 24.2  | 24.2         | 21.1                  |
| Texas .....                      | 23.8                                | 23.6  | 24.9         | 25.5  | 25.6         | 22.5                  | 15.4  | 15.4  | 15.6         | 14.2  | 14.2         | 15.2                  |
| Utah .....                       | 16.0                                | 15.9  | 15.7         | 20.4  | 21.3         | 17.7                  | 35.5  | 35.5  | 35.7         | *     | *            | 34.6                  |
| Vermont .....                    | 16.4                                | 16.4  | 16.4         | *     | *            | *                     | 35.7  | 35.9  | 35.6         | *     | *            | *                     |
| Virginia .....                   | 21.7                                | 21.6  | 21.8         | 22.1  | 22.1         | 19.2                  | 26.6  | 26.1  | 25.9         | 27.4  | 27.4         | 27.3                  |
| Washington .....                 | 18.9                                | 18.7  | 18.8         | 22.5  | 22.5         | 17.7                  | 28.8  | 28.7  | 27.3         | 30.7  | 31.7         | 32.8                  |
| West Virginia .....              | 24.8                                | 24.6  | 24.6         | 27.3  | 27.3         | 25.5                  | 18.4  | 18.6  | 18.6         | *     | *            | *                     |
| Wisconsin .....                  | 17.0                                | 17.5  | 17.6         | 13.7  | 13.7         | 16.2                  | 31.7  | 30.5  | 30.6         | 39.2  | 39.1         | 29.5                  |
| Wyoming .....                    | 19.6                                | 19.5  | 19.6         | *     | *            | 18.8                  | 26.9  | 26.3  | 26.7         | *     | *            | *                     |
| Puerto Rico .....                | 37.8                                | 38.0  | ---          | 35.8  | ---          | ---                   | 6.8   | 6.8   | ---          | 6.8   | ---          | ---                   |
| Virgin Islands .....             | 22.7                                | 29.5  | 26.6         | 21.1  | 20.7         | 27.8                  | 17.4  | *     | *            | 17.6  | *            | *                     |
| Guam .....                       | 16.6                                | 18.5  | 18.4         | *     | *            | *                     | 26.8  | *     | *            | *     | *            | *                     |
| American Samoa .....             | ---                                 | ---   | ---          | ---   | ---          | ---                   | ---   | ---   | ---          | ---   | ---          | ---                   |
| Northern Marianas ....           | 14.9                                | *     | ---          | *     | ---          | ---                   | *   | *     | ---          | *     | ---          | ---                   |

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.

--- Data not available.

<sup>1</sup> Percent of all live births by cesarean delivery.<sup>2</sup> Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.<sup>3</sup> Includes races other than white and black and origin not stated.<sup>4</sup> Includes all persons of Hispanic origin of any race.<sup>5</sup> Excludes data for the territories.

NOTE: Data on method of delivery for the Northern Marianas are substantially incomplete; see Table I in the Technical notes.

**Table 42. Rates of cesarean delivery and vaginal birth after previous cesarean delivery, by selected maternal medical risk factors and complications of labor and/or delivery: United States, 1999**

| Medical risk factor and complication          | All births to mothers with specified condition and/or procedure | Cesarean delivery rate |                      | Rate of vaginal birth after previous cesarean <sup>3</sup> |
|---|---|------------------------|----------------------|--|
|   |   | Total <sup>1</sup>     | Primary <sup>2</sup> |  |
| <b>Medical risk factors</b>                   |   |                        |                      |  |
| Anemia .....                                  | 90,322  | 22.2                   | 15.5                 | 27.3   |
| Cardiac disease .....                         | 20,189  | 26.1                   | 19.1                 | 27.0   |
| Acute or chronic lung disease .....           | 43,117  | 25.4                   | 18.4                 | 26.5   |
| Diabetes .....                                | 106,413   | 37.2                   | 26.7                 | 17.2   |
| Genital herpes <sup>4</sup> .....             | 33,636  | 34.5                   | 28.4                 | 27.0   |
| Hydramnios/Oligohydramnios .....              | 52,704  | 36.7                   | 31.3                 | 22.4   |
| Hemoglobinopathy .....                        | 3,165   | 25.8                   | 18.7                 | 25.3   |
| Hypertension, chronic .....                   | 27,912  | 41.2                   | 31.5                 | 15.1   |
| Hypertension, pregnancy-associated .....      | 148,837   | 36.9                   | 31.7                 | 18.0   |
| Eclampsia .....                               | 11,993  | 49.1                   | 44.6                 | 14.4   |
| Incompetent cervix .....                      | 11,344  | 35.3                   | 27.8                 | 21.8   |
| Renal disease .....                           | 11,038  | 26.1                   | 19.1                 | 26.3   |
| Rh sensitization <sup>5</sup> .....           | 25,448  | 22.8                   | 16.1                 | 26.6   |
| Uterine bleeding <sup>4</sup> .....           | 22,332  | 32.6                   | 25.9                 | 22.7   |
| <b>Complications of labor and/or delivery</b> |   |                        |                      |  |
| Febrile .....                                 | 59,904  | 29.7                   | 28.0                 | 47.4   |
| Meconium, moderate/heavy .....                | 213,698   | 20.5                   | 17.7                 | 45.1   |
| Premature rupture of membrane .....           | 100,130   | 25.6                   | 22.4                 | 37.2   |
| Abruptio placenta .....                       | 21,999  | 59.5                   | 55.0                 | 15.7   |
| Placenta previa .....                         | 12,492  | 81.7                   | 77.7                 | 3.6  |
| Other excessive bleeding .....                | 21,930  | 26.5                   | 20.9                 | 32.2   |
| Seizures during labor .....                   | 1,331   | 52.2                   | 49.9                 | *  |
| Precipitous labor (less than 3 hours) .....   | 77,848  | 2.5                    | 1.6                  | 78.3   |
| Prolonged labor (more than 20 hours) .....    | 30,683  | 36.3                   | 34.8                 | 42.5   |
| Dysfunctional labor .....                     | 105,795   | 67.3                   | 65.3                 | 15.4   |
| Breech/Malpresentation .....                  | 152,084   | 84.5                   | 82.9                 | 5.0  |
| Cephalopelvic disproportion .....             | 71,604  | 96.4                   | 96.0                 | 1.2  |
| Cord prolapse .....                           | 7,773   | 65.6                   | 63.5                 | 14.6   |
| Anesthetic complication .....                 | 2,299   | 40.1                   | 32.4                 | 19.5   |
| Fetal distress .....                          | 140,756   | 57.5                   | 55.1                 | 20.6   |

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in numerator.

<sup>1</sup> Percent of all live births by cesarean delivery.<sup>2</sup> Number of primary cesareans per 100 live births to women who have not had a previous cesarean.<sup>3</sup> Number of vaginal births after previous cesarean delivery per 100 live births to women with a previous cesarean delivery.<sup>4</sup> Texas does not report this risk factor.<sup>5</sup> Kansas does not report this risk factor.

**Table 43. Live births by birthweight and percent very low and low birthweight, by period of gestation and race and Hispanic origin of mother: United States, 1999**

| Birthweight <sup>1</sup> and race and Hispanic origin of mother | All births | Period of gestation <sup>2</sup> |                |             |             |          |                   |             |          |          |                   | Not stated |
|---|------------|----------------------------------|----------------|-------------|-------------|----------|-------------------|-------------|----------|----------|-------------------|------------|
|   |            | Preterm                          |                |             |             |          | Term              |             |          | Postterm |                   |            |
|   |            | Total under 37 weeks             | Under 28 weeks | 28-31 weeks | 32-35 weeks | 36 weeks | Total 37-41 weeks | 37-39 weeks | 40 weeks | 41 weeks | 42 weeks and over |            |
| Number  |            |                                  |                |             |             |          |                   |             |          |          |                   |            |
| All races <sup>3</sup> .....                                    | 3,959,417  | 460,853                          | 28,959         | 47,938      | 215,529     | 168,427  | 3,170,780         | 1,899,742   | 841,824  | 429,214  | 284,844           | 42,940     |
| Less than 500 grams .....                                       | 5,912      | 5,698                            | 5,440          | 233         | 23          | 2        | 10                | 8           | 1        | 1        | 1                 | 203        |
| 500-999 grams .....   | 22,815     | 22,137                           | 16,257         | 5,238       | 593         | 49       | 202               | 131         | 50       | 21       | 29                | 447        |
| 1,000-1,499 grams .....   | 28,750     | 26,632                           | 3,933          | 15,314      | 6,863       | 522      | 1,409             | 1,044       | 241      | 124      | 217               | 492        |
| 1,500-1,999 grams .....   | 59,531     | 49,139                           | 917            | 11,336      | 31,884      | 5,002    | 8,712             | 7,242       | 961      | 509      | 852               | 828        |
| 2,000-2,499 grams .....   | 184,175    | 94,895                           | 668            | 4,222       | 61,262      | 28,743   | 81,960            | 67,564      | 9,839    | 4,557    | 5,188             | 2,132      |
| 2,500-2,999 grams .....   | 653,327    | 120,993                          | 1,009          | 4,133       | 54,470      | 61,381   | 491,843           | 366,832     | 87,050   | 37,961   | 33,774            | 6,717      |
| 3,000-3,499 grams .....   | 1,470,019  | 92,800                           | -              | 4,827       | 38,342      | 49,631   | 1,257,225         | 791,477     | 318,043  | 147,705  | 105,555           | 14,439     |
| 3,500-3,999 grams .....   | 1,137,401  | 38,305                           | -              | 2,557       | 17,378      | 18,370   | 989,540           | 515,199     | 309,643  | 164,698  | 98,399            | 11,157     |
| 4,000-4,499 grams .....   | 332,863    | 7,777                            | -              | -           | 3,862       | 3,915    | 287,930           | 128,154     | 98,697   | 61,079   | 33,845            | 3,311      |
| 4,500-4,999 grams .....   | 53,751     | 1,238                            | -              | -           | 600         | 638      | 45,801            | 19,142      | 15,486   | 11,173   | 6,129             | 583        |
| 5,000 grams or more .....                                       | 6,069      | 191                              | -              | -           | 98          | 93       | 5,059             | 2,305       | 1,525    | 1,229    | 728               | 91         |
| Not stated .....  | 4,804      | 1,048                            | 735            | 78          | 154         | 81       | 1,089             | 644         | 288      | 157      | 127               | 2,540      |
| Percent   |            |                                  |                |             |             |          |                   |             |          |          |                   |            |
| Very low birthweight <sup>4</sup> .....                         | 1.5        | 11.8                             | 90.8           | 43.4        | 3.5         | 0.3      | 0.1               | 0.1         | 0.0      | 0.0      | 0.1               | 2.8        |
| Low birthweight <sup>5</sup> .....                              | 7.6        | 43.2                             | 96.4           | 75.9        | 46.7        | 20.4     | 2.9               | 4.0         | 1.3      | 1.2      | 2.2               | 10.2       |
| Number  |            |                                  |                |             |             |          |                   |             |          |          |                   |            |
| White, total .....  | 3,132,501  | 332,067                          | 16,805         | 31,869      | 155,999     | 127,394  | 2,538,796         | 1,504,419   | 682,583  | 351,794  | 228,098           | 33,540     |
| Less than 500 grams .....                                       | 3,272      | 3,130                            | 2,974          | 138         | 16          | 2        | 4                 | 4           | -        | -        | -                 | 138        |
| 500-999 grams .....   | 13,730     | 13,270                           | 9,540          | 3,290       | 407         | 33       | 146               | 97          | 37       | 12       | 19                | 295        |
| 1,000-1,499 grams .....   | 19,022     | 17,613                           | 2,458          | 10,186      | 4,628       | 341      | 918               | 684         | 154      | 80       | 144               | 347        |
| 1,500-1,999 grams .....   | 41,042     | 34,022                           | 487            | 7,821       | 22,335      | 3,379    | 5,854             | 4,875       | 638      | 341      | 565               | 601        |
| 2,000-2,499 grams .....   | 128,495    | 67,794                           | 356            | 2,732       | 44,232      | 20,474   | 55,758            | 46,090      | 6,549    | 3,119    | 3,451             | 1,492      |
| 2,500-2,999 grams .....   | 468,684    | 88,736                           | 564            | 2,553       | 39,759      | 45,860   | 351,203           | 262,881     | 61,128   | 27,194   | 23,906            | 4,839      |
| 3,000-3,499 grams .....   | 1,150,762  | 69,428                           | -              | 3,185       | 27,593      | 38,650   | 988,174           | 622,576     | 249,290  | 116,308  | 81,830            | 11,330     |
| 3,500-3,999 grams .....   | 959,432    | 29,889                           | -              | 1,909       | 13,217      | 14,763   | 837,832           | 436,107     | 262,266  | 139,459  | 82,410            | 9,301      |
| 4,000-4,499 grams .....   | 291,799    | 6,356                            | -              | -           | 3,113       | 3,243    | 253,017           | 111,877     | 87,146   | 53,994   | 29,600            | 2,826      |
| 4,500-4,999 grams .....   | 47,564     | 1,025                            | -              | -           | 505         | 520      | 40,606            | 16,758      | 13,791   | 10,057   | 5,425             | 508        |
| 5,000 grams or more .....                                       | 5,238      | 146                              | -              | -           | 76          | 70       | 4,377             | 1,944       | 1,341    | 1,092    | 642               | 73         |
| Not stated .....  | 3,461      | 658                              | 426            | 55          | 118         | 59       | 907               | 526         | 243      | 138      | 106               | 1,790      |
| Percent   |            |                                  |                |             |             |          |                   |             |          |          |                   |            |
| Very low birthweight <sup>4</sup> .....                         | 1.2        | 10.3                             | 91.4           | 42.8        | 3.2         | 0.3      | 0.0               | 0.1         | 0.0      | 0.0      | 0.1               | 2.5        |
| Low birthweight <sup>5</sup> .....                              | 6.6        | 41.0                             | 96.6           | 76.0        | 45.9        | 19.0     | 2.5               | 3.4         | 1.1      | 1.0      | 1.8               | 9.0        |
| Number  |            |                                  |                |             |             |          |                   |             |          |          |                   |            |
| White, non-Hispanic .....                                       | 2,346,450  | 245,159                          | 12,313         | 23,496      | 113,630     | 95,720   | 1,917,885         | 1,136,012   | 514,960  | 266,913  | 168,364           | 15,042     |
| Less than 500 grams .....                                       | 2,365      | 2,314                            | 2,192          | 107         | 14          | 1        | 1                 | 1           | -        | -        | -                 | 50         |
| 500-999 grams .....   | 10,165     | 9,912                            | 7,037          | 2,555       | 299         | 21       | 102               | 67          | 24       | 11       | 6                 | 145        |
| 1,000-1,499 grams .....   | 14,481     | 13,561                           | 1,801          | 7,898       | 3,596       | 266      | 654               | 489         | 109      | 56       | 101               | 165        |
| 1,500-1,999 grams .....   | 31,610     | 26,458                           | 333            | 6,075       | 17,408      | 2,642    | 4,429             | 3,714       | 463      | 252      | 414               | 309        |
| 2,000-2,499 grams .....   | 96,992     | 52,336                           | 260            | 1,894       | 34,383      | 15,799   | 41,454            | 34,494      | 4,700    | 2,260    | 2,475             | 727        |
| 2,500-2,999 grams .....   | 340,563    | 66,559                           | 377            | 1,605       | 29,410      | 35,167   | 254,732           | 192,240     | 43,207   | 19,285   | 17,126            | 2,146      |
| 3,000-3,499 grams .....   | 842,394    | 48,504                           | -              | 2,031       | 17,758      | 28,715   | 730,674           | 463,169     | 182,308  | 85,197   | 58,495            | 4,721      |
| 3,500-3,999 grams .....   | 733,006    | 19,932                           | -              | 1,287       | 8,299       | 10,346   | 647,175           | 337,725     | 201,913  | 107,537  | 61,789            | 4,110      |
| 4,000-4,499 grams .....   | 230,650    | 4,313                            | -              | -           | 2,017       | 2,296    | 201,937           | 88,958      | 69,778   | 43,201   | 23,083            | 1,317      |
| 4,500-4,999 grams .....   | 37,836     | 681                              | -              | -           | 312         | 369      | 32,611            | 13,241      | 11,223   | 8,147    | 4,311             | 233        |
| 5,000 grams or more .....                                       | 3,987      | 94                               | -              | -           | 48          | 46       | 3,376             | 1,476       | 1,045    | 855      | 480               | 37         |
| Not stated .....  | 2,401      | 495                              | 313            | 44          | 86          | 52       | 740               | 438         | 190      | 112      | 84                | 1,082      |
| Percent   |            |                                  |                |             |             |          |                   |             |          |          |                   |            |
| Very low birthweight <sup>4</sup> .....                         | 1.2        | 10.5                             | 91.9           | 45.0        | 3.4         | 0.3      | 0.0               | 0.0         | 0.0      | 0.0      | 0.1               | 2.6        |
| Low birthweight <sup>5</sup> .....                              | 6.6        | 42.7                             | 96.9           | 79.0        | 49.1        | 19.6     | 2.4               | 3.4         | 1.0      | 1.0      | 1.8               | 10.0       |

See footnotes at end of table.

**Table 43. Live births by birthweight and percent very low and low birthweight, by period of gestation and race and Hispanic origin of mother: United States, 1999 --Con.**

| Birthweight <sup>1</sup> and race and Hispanic origin of mother | All births | Period of gestation <sup>2</sup> |                |             |             |          |                   |             |          |          |                   | Not stated |
|---|------------|----------------------------------|----------------|-------------|-------------|----------|-------------------|-------------|----------|----------|-------------------|------------|
|   |            | Preterm                          |                |             |             |          | Term              |             |          | Postterm |                   |            |
|   |            | Total under 37 weeks             | Under 28 weeks | 28-31 weeks | 32-35 weeks | 36 weeks | Total 37-41 weeks | 37-39 weeks | 40 weeks | 41 weeks | 42 weeks and over |            |
| Number  |            |                                  |                |             |             |          |                   |             |          |          |                   |            |
| Black, total .....  | 605,970    | 105,210                          | 10,977         | 13,840      | 48,511      | 31,882   | 453,106           | 284,513     | 112,664  | 55,929   | 42,690            | 4,964      |
| Less than 500 grams .....                                       | 2,424      | 2,359                            | 2,267          | 86          | 6           | -        | 6                 | 4           | 1        | 1        | 1                 | 58         |
| 500-999 grams .....   | 8,179      | 8,006                            | 6,079          | 1,757       | 157         | 13       | 47                | 30          | 12       | 5        | 10                | 116        |
| 1,000-1,499 grams .....   | 8,403      | 7,819                            | 1,301          | 4,484       | 1,881       | 153      | 416               | 306         | 71       | 39       | 71                | 97         |
| 1,500-1,999 grams .....   | 15,526     | 12,759                           | 390            | 2,984       | 8,037       | 1,348    | 2,364             | 1,947       | 270      | 147      | 242               | 161        |
| 2,000-2,499 grams .....   | 44,790     | 22,145                           | 291            | 1,305       | 13,946      | 6,603    | 20,785            | 16,959      | 2,628    | 1,198    | 1,444             | 416        |
| 2,500-2,999 grams .....   | 139,262    | 25,680                           | 370            | 1,359       | 11,970      | 11,981   | 104,692           | 77,026      | 19,456   | 8,210    | 7,855             | 1,035      |
| 3,000-3,499 grams .....   | 229,798    | 18,363                           | -              | 1,367       | 8,567       | 8,429    | 191,785           | 120,100     | 48,784   | 22,901   | 18,100            | 1,550      |
| 3,500-3,999 grams .....   | 124,009    | 6,492                            | -              | 483         | 3,268       | 2,741    | 105,174           | 54,970      | 32,444   | 17,760   | 11,499            | 844        |
| 4,000-4,499 grams .....   | 27,907     | 1,053                            | -              | -           | 557         | 496      | 23,731            | 11,189      | 7,749    | 4,793    | 2,923             | 200        |
| 4,500-4,999 grams .....   | 4,205      | 161                              | -              | -           | 78          | 83       | 3,534             | 1,659       | 1,109    | 766      | 474               | 36         |
| 5,000 grams or more .....                                       | 554        | 31                               | -              | -           | 15          | 16       | 453               | 245         | 113      | 95       | 56                | 14         |
| Not stated .....  | 913        | 342                              | 279            | 15          | 29          | 19       | 119               | 78          | 27       | 14       | 15                | 437        |
| Percent   |            |                                  |                |             |             |          |                   |             |          |          |                   |            |
| Very low birthweight <sup>4</sup> .....                         | 3.1        | 17.3                             | 90.2           | 45.8        | 4.2         | 0.5      | 0.1               | 0.1         | 0.1      | 0.1      | 0.2               | 6.0        |
| Low birthweight <sup>5</sup> .....                              | 13.1       | 50.6                             | 96.5           | 76.8        | 49.6        | 25.5     | 5.2               | 6.8         | 2.6      | 2.5      | 4.1               | 18.7       |
| Number  |            |                                  |                |             |             |          |                   |             |          |          |                   |            |
| Black, non-Hispanic .....                                       | 588,981    | 103,034                          | 10,799         | 13,602      | 47,484      | 31,149   | 439,816           | 276,706     | 109,057  | 54,053   | 41,462            | 4,669      |
| Less than 500 grams .....                                       | 2,381      | 2,318                            | 2,229          | 84          | 5           | -        | 6                 | 4           | 1        | 1        | 1                 | 56         |
| 500-999 grams .....   | 8,059      | 7,891                            | 5,988          | 1,737       | 153         | 13       | 47                | 30          | 12       | 5        | 10                | 111        |
| 1,000-1,499 grams .....   | 8,273      | 7,704                            | 1,278          | 4,423       | 1,853       | 150      | 405               | 300         | 68       | 37       | 70                | 94         |
| 1,500-1,999 grams .....   | 15,217     | 12,512                           | 380            | 2,934       | 7,880       | 1,318    | 2,313             | 1,905       | 264      | 144      | 238               | 154        |
| 2,000-2,499 grams .....   | 43,896     | 21,711                           | 284            | 1,281       | 13,665      | 6,481    | 20,365            | 16,630      | 2,567    | 1,168    | 1,420             | 400        |
| 2,500-2,999 grams .....   | 135,952    | 25,123                           | 363            | 1,332       | 11,727      | 11,701   | 102,175           | 75,197      | 18,950   | 8,028    | 7,661             | 993        |
| 3,000-3,499 grams .....   | 223,441    | 17,928                           | -              | 1,336       | 8,371       | 8,221    | 186,401           | 116,894     | 47,317   | 22,190   | 17,621            | 1,491      |
| 3,500-3,999 grams .....   | 119,685    | 6,308                            | -              | 464         | 3,180       | 2,664    | 101,467           | 53,117      | 31,254   | 17,096   | 11,109            | 801        |
| 4,000-4,499 grams .....   | 26,732     | 1,021                            | -              | -           | 534         | 487      | 22,705            | 10,718      | 7,431    | 4,556    | 2,815             | 191        |
| 4,500-4,999 grams .....   | 4,030      | 155                              | -              | -           | 74          | 81       | 3,388             | 1,606       | 1,058    | 724      | 452               | 35         |
| 5,000 grams or more .....                                       | 528        | 30                               | -              | -           | 15          | 15       | 433               | 233         | 109      | 91       | 51                | 14         |
| Not stated .....  | 787        | 333                              | 277            | 11          | 27          | 18       | 111               | 72          | 26       | 13       | 14                | 329        |
| Percent   |            |                                  |                |             |             |          |                   |             |          |          |                   |            |
| Very low birthweight <sup>4</sup> .....                         | 3.2        | 17.4                             | 90.2           | 45.9        | 4.2         | 0.5      | 0.1               | 0.1         | 0.1      | 0.1      | 0.2               | 6.0        |
| Low birthweight <sup>5</sup> .....                              | 13.2       | 50.8                             | 96.6           | 77.0        | 49.6        | 25.6     | 5.3               | 6.8         | 2.7      | 2.5      | 4.2               | 18.8       |
| Number  |            |                                  |                |             |             |          |                   |             |          |          |                   |            |
| Hispanic <sup>6</sup> .....                                     | 764,339    | 85,363                           | 4,333          | 8,203       | 41,797      | 31,030   | 603,348           | 358,620     | 162,579  | 82,149   | 58,360            | 17,268     |
| Less than 500 grams .....                                       | 828        | 747                              | 712            | 31          | 3           | 1        | 3                 | 3           | -        | -        | -                 | 78         |
| 500-999 grams .....   | 3,441      | 3,241                            | 2,423          | 701         | 105         | 12       | 43                | 30          | 11       | 2        | 13                | 144        |
| 1,000-1,499 grams .....   | 4,437      | 3,964                            | 651            | 2,219       | 1,020       | 74       | 260               | 193         | 45       | 22       | 41                | 172        |
| 1,500-1,999 grams .....   | 9,248      | 7,401                            | 155            | 1,691       | 4,824       | 731      | 1,408             | 1,139       | 176      | 93       | 152               | 287        |
| 2,000-2,499 grams .....   | 30,734     | 15,068                           | 97             | 818         | 9,621       | 4,532    | 13,979            | 11,322      | 1,816    | 841      | 955               | 732        |
| 2,500-2,999 grams .....   | 125,812    | 21,772                           | 191            | 945         | 10,189      | 10,447   | 94,760            | 69,292      | 17,685   | 7,783    | 6,719             | 2,561      |
| 3,000-3,499 grams .....   | 301,243    | 20,677                           | -              | 1,156       | 9,768       | 9,753    | 251,365           | 155,566     | 65,380   | 30,419   | 22,894            | 6,307      |
| 3,500-3,999 grams .....   | 218,943    | 9,923                            | -              | 630         | 4,905       | 4,388    | 184,015           | 95,164      | 58,122   | 30,729   | 20,050            | 4,955      |
| 4,000-4,499 grams .....   | 58,553     | 2,017                            | -              | -           | 1,108       | 909      | 48,813            | 21,984      | 16,600   | 10,229   | 6,285             | 1,438      |
| 4,500-4,999 grams .....   | 9,268      | 348                              | -              | -           | 196         | 152      | 7,589             | 3,389       | 2,428    | 1,772    | 1,069             | 262        |
| 5,000 grams or more .....                                       | 1,209      | 51                               | -              | -           | 27          | 24       | 963               | 457         | 272      | 234      | 160               | 35         |
| Not stated .....  | 623        | 154                              | 104            | 12          | 31          | 7        | 150               | 81          | 44       | 25       | 22                | 297        |
| Percent   |            |                                  |                |             |             |          |                   |             |          |          |                   |            |
| Very low birthweight <sup>4</sup> .....                         | 1.1        | 9.3                              | 89.5           | 36.0        | 2.7         | 0.3      | 0.1               | 0.1         | 0.0      | 0.0      | 0.1               | 2.3        |
| Low birthweight <sup>5</sup> .....                              | 6.4        | 35.7                             | 95.5           | 66.7        | 37.3        | 17.2     | 2.6               | 3.5         | 1.3      | 1.2      | 2.0               | 8.3        |

- Quantity zero.

0.0 Quantity more than zero but less than 0.05.

<sup>1</sup> Equivalents of the gram weights in pounds and ounces are shown in the Technical notes.<sup>2</sup> Expressed in completed weeks.<sup>3</sup> Includes races other than white and black and origin not stated.<sup>4</sup> Birthweight of less than 1,500 grams (3 lb 4 oz).<sup>5</sup> Birthweight of less than 2,500 grams (5 lb 8 oz).<sup>6</sup> Includes all persons of Hispanic origin of any race.

**Table 44. Percent of live births very preterm and preterm and percent of live births of very low birthweight and low birthweight, by race and Hispanic origin of mother: United States, 1981-99**

| Year              | Very preterm <sup>1</sup> |       |              |       |              |                       | Preterm <sup>2</sup>   |       |              |       |              |                       |
|-------------------|---------------------------|-------|--------------|-------|--------------|-----------------------|------------------------|-------|--------------|-------|--------------|-----------------------|
|                   | All races <sup>3</sup>    | White |              | Black |              | Hispanic <sup>4</sup> | All races <sup>3</sup> | White |              | Black |              | Hispanic <sup>4</sup> |
|                   |                           | Total | Non-Hispanic | Total | Non-Hispanic |                       |                        | Total | Non-Hispanic | Total | Non-Hispanic |                       |
| 1999              | 1.96                      | 1.57  | 1.54         | 4.13  | 4.18         | 1.68                  | 11.8                   | 10.7  | 10.5         | 17.5  | 17.6         | 11.4                  |
| 1998              | 1.96                      | 1.57  | 1.52         | 4.11  | 4.15         | 1.72                  | 11.6                   | 10.5  | 10.2         | 17.5  | 17.6         | 11.4                  |
| 1997              | 1.94                      | 1.53  | 1.49         | 4.17  | 4.19         | 1.68                  | 11.4                   | 10.2  | 9.9          | 17.5  | 17.6         | 11.2                  |
| 1996              | 1.89                      | 1.48  | 1.43         | 4.13  | 4.17         | 1.66                  | 11.0                   | 9.8   | 9.5          | 17.4  | 17.5         | 10.9                  |
| 1995              | 1.89                      | 1.46  | 1.41         | 4.25  | 4.29         | 1.66                  | 11.0                   | 9.7   | 9.4          | 17.7  | 17.8         | 10.9                  |
| 1994              | 1.91                      | 1.45  | 1.39         | 4.32  | 4.36         | 1.67                  | 11.0                   | 9.6   | 9.3          | 18.1  | 18.2         | 10.9                  |
| 1993              | 1.93                      | 1.45  | 1.39         | 4.41  | 4.45         | 1.67                  | 11.0                   | 9.5   | 9.1          | 18.5  | 18.6         | 11.0                  |
| 1992 <sup>7</sup> | 1.91                      | 1.40  | 1.33         | 4.47  | 4.50         | 1.64                  | 10.7                   | 9.1   | 8.7          | 18.4  | 18.5         | 10.7                  |
| 1991 <sup>7</sup> | 1.94                      | 1.41  | 1.35         | 4.62  | 4.65         | 1.65                  | 10.8                   | 9.1   | 8.7          | 18.9  | 19.0         | 11.0                  |
| 1990 <sup>8</sup> | 1.92                      | 1.39  | 1.33         | 4.61  | 4.63         | 1.69                  | 10.6                   | 8.9   | 8.5          | 18.8  | 18.9         | 11.0                  |
| 1989 <sup>9</sup> | 1.95                      | 1.41  | 1.34         | 4.64  | 4.68         | 1.76                  | 10.6                   | 8.8   | 8.4          | 18.9  | 19.0         | 11.1                  |
| 1988              | 1.96                      | 1.42  | ---          | 4.72  | ---          | ---                   | 10.2                   | 8.5   | ---          | 18.7  | ---          | ---                   |
| 1987              | 1.96                      | 1.44  | ---          | 4.61  | ---          | ---                   | 10.2                   | 8.5   | ---          | 18.4  | ---          | ---                   |
| 1986              | 1.90                      | 1.41  | ---          | 4.47  | ---          | ---                   | 10.0                   | 8.4   | ---          | 18.0  | ---          | ---                   |
| 1985              | 1.88                      | 1.42  | ---          | 4.37  | ---          | ---                   | 9.8                    | 8.2   | ---          | 17.8  | ---          | ---                   |
| 1984              | 1.83                      | 1.38  | ---          | 4.22  | ---          | ---                   | 9.4                    | 7.9   | ---          | 17.1  | ---          | ---                   |
| 1983              | 1.86                      | 1.40  | ---          | 4.34  | ---          | ---                   | 9.6                    | 8.0   | ---          | 17.7  | ---          | ---                   |
| 1982              | 1.84                      | 1.40  | ---          | 4.22  | ---          | ---                   | 9.5                    | 8.0   | ---          | 17.4  | ---          | ---                   |
| 1981              | 1.81                      | 1.37  | ---          | 4.13  | ---          | ---                   | 9.4                    | 7.9   | ---          | 17.3  | ---          | ---                   |

| Year              | Very low birthweight <sup>5</sup> |       |              |       |              |                       | Low birthweight <sup>6</sup> |       |              |       |              |                       |
|-------------------|-----------------------------------|-------|--------------|-------|--------------|-----------------------|------------------------------|-------|--------------|-------|--------------|-----------------------|
|                   | All races <sup>3</sup>            | White |              | Black |              | Hispanic <sup>4</sup> | All races <sup>3</sup>       | White |              | Black |              | Hispanic <sup>4</sup> |
|                   |                                   | Total | Non-Hispanic | Total | Non-Hispanic |                       |                              | Total | Non-Hispanic | Total | Non-Hispanic |                       |
| 1999              | 1.45                              | 1.15  | 1.15         | 3.14  | 3.18         | 1.14                  | 7.6                          | 6.6   | 6.6          | 13.1  | 13.2         | 6.4                   |
| 1998              | 1.45                              | 1.15  | 1.15         | 3.08  | 3.11         | 1.15                  | 7.6                          | 6.5   | 6.6          | 13.0  | 13.2         | 6.4                   |
| 1997              | 1.42                              | 1.13  | 1.12         | 3.04  | 3.05         | 1.13                  | 7.5                          | 6.5   | 6.5          | 13.0  | 13.1         | 6.4                   |
| 1996              | 1.37                              | 1.09  | 1.08         | 2.99  | 3.02         | 1.12                  | 7.4                          | 6.3   | 6.4          | 13.0  | 13.1         | 6.3                   |
| 1995              | 1.35                              | 1.06  | 1.04         | 2.97  | 2.98         | 1.11                  | 7.3                          | 6.2   | 6.2          | 13.1  | 13.2         | 6.3                   |
| 1994              | 1.33                              | 1.02  | 1.01         | 2.96  | 2.99         | 1.08                  | 7.3                          | 6.1   | 6.1          | 13.2  | 13.3         | 6.2                   |
| 1993              | 1.33                              | 1.01  | 1.00         | 2.96  | 2.99         | 1.06                  | 7.2                          | 6.0   | 5.9          | 13.3  | 13.4         | 6.2                   |
| 1992 <sup>7</sup> | 1.29                              | 0.96  | 0.94         | 2.96  | 2.97         | 1.04                  | 7.1                          | 5.8   | 5.7          | 13.3  | 13.4         | 6.1                   |
| 1991 <sup>7</sup> | 1.29                              | 0.96  | 0.94         | 2.96  | 2.97         | 1.02                  | 7.1                          | 5.8   | 5.7          | 13.6  | 13.6         | 6.1                   |
| 1990 <sup>8</sup> | 1.27                              | 0.95  | 0.93         | 2.92  | 2.93         | 1.03                  | 7.0                          | 5.7   | 5.6          | 13.3  | 13.3         | 6.1                   |
| 1989 <sup>9</sup> | 1.28                              | 0.95  | 0.93         | 2.95  | 2.97         | 1.05                  | 7.0                          | 5.7   | 5.6          | 13.5  | 13.6         | 6.2                   |
| 1988              | 1.24                              | 0.93  | ---          | 2.86  | ---          | ---                   | 6.9                          | 5.7   | ---          | 13.3  | ---          | ---                   |
| 1987              | 1.24                              | 0.94  | ---          | 2.79  | ---          | ---                   | 6.9                          | 5.7   | ---          | 13.0  | ---          | ---                   |
| 1986              | 1.21                              | 0.93  | ---          | 2.73  | ---          | ---                   | 6.8                          | 5.7   | ---          | 12.8  | ---          | ---                   |
| 1985              | 1.21                              | 0.93  | ---          | 2.71  | ---          | ---                   | 6.8                          | 5.7   | ---          | 12.6  | ---          | ---                   |
| 1984              | 1.19                              | 0.93  | ---          | 2.60  | ---          | ---                   | 6.7                          | 5.6   | ---          | 12.6  | ---          | ---                   |
| 1983              | 1.19                              | 0.92  | ---          | 2.60  | ---          | ---                   | 6.8                          | 5.7   | ---          | 12.8  | ---          | ---                   |
| 1982              | 1.18                              | 0.91  | ---          | 2.56  | ---          | ---                   | 6.8                          | 5.6   | ---          | 12.6  | ---          | ---                   |
| 1981              | 1.16                              | 0.91  | ---          | 2.52  | ---          | ---                   | 6.8                          | 5.7   | ---          | 12.7  | ---          | ---                   |

--- Data not available.

<sup>1</sup> Births of less than 32 completed weeks of gestation.<sup>2</sup> Births of less than 37 completed weeks of gestation.<sup>3</sup> Includes races other than white and black and origin not stated.<sup>4</sup> Includes all persons of Hispanic origin of any race.<sup>5</sup> Less than 1,500 grams (3 lb. 4 oz.).<sup>6</sup> Less than 2,500 grams (5 lb. 8 oz.).<sup>7</sup> Data by Hispanic origin exclude New Hampshire, which did not report Hispanic origin.<sup>8</sup> Data by Hispanic origin exclude New Hampshire and Oklahoma, which did not report Hispanic origin.<sup>9</sup> Data by Hispanic origin exclude New Hampshire, Oklahoma, and Louisiana, which did not report Hispanic origin.

**Table 45. Number and percent low birthweight and number of live births by birthweight, by age and race and Hispanic origin of mother: United States, 1999**

| Age and race and Hispanic origin of mother | Low birthweight <sup>1</sup> |         | Birthweight <sup>2</sup> |                     |               |                   |                   |                   |                   |                   |                   |                   |                   |                     |            |
|--|------------------------------|---------|--------------------------|---------------------|---------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|---------------------|------------|
|  | Number                       | Percent | Total                    | Less than 500 grams | 500-999 grams | 1,000-1,499 grams | 1,500-1,999 grams | 2,000-2,499 grams | 2,500-2,999 grams | 3,000-3,499 grams | 3,500-3,999 grams | 4,000-4,499 grams | 4,500-4,999 grams | 5,000-grams or more | Not stated |
| <b>All races <sup>3</sup></b>              |                              |         |                          |                     |               |                   |                   |                   |                   |                   |                   |                   |                   |                     |            |
| All ages .....                             | 301,183                      | 7.6     | 3,959,417                | 5,912               | 22,815        | 28,750            | 59,531            | 184,175           | 653,327           | 1,470,019         | 1,137,401         | 332,863           | 53,751            | 6,069               | 4,804      |
| Under 15 years .....                       | 1,161                        | 12.9    | 9,054                    | 27                  | 126           | 140               | 212               | 656               | 2,169             | 3,642             | 1,755             | 276               | 30                | 1                   | 20         |
| 15-19 years .....                          | 45,604                       | 9.6     | 476,050                  | 861                 | 3,577         | 4,289             | 8,542             | 28,335            | 102,468           | 191,079           | 109,812           | 23,383            | 2,791             | 289                 | 624        |
| 15 years .....                             | 2,611                        | 11.4    | 22,896                   | 42                  | 233           | 262               | 525               | 1,549             | 5,573             | 9,234             | 4,563             | 804               | 72                | 5                   | 34         |
| 16 years .....                             | 5,460                        | 10.6    | 51,516                   | 110                 | 470           | 519               | 966               | 3,395             | 11,646            | 20,723            | 11,220            | 2,139             | 243               | 28                  | 57         |
| 17 years .....                             | 8,937                        | 10.0    | 89,176                   | 175                 | 725           | 811               | 1,681             | 5,545             | 19,679            | 35,971            | 19,954            | 4,014             | 455               | 39                  | 127        |
| 18 years .....                             | 12,847                       | 9.6     | 133,988                  | 230                 | 962           | 1,207             | 2,415             | 8,033             | 28,760            | 54,036            | 30,695            | 6,614             | 788               | 73                  | 175        |
| 19 years .....                             | 15,749                       | 8.8     | 178,474                  | 304                 | 1,187         | 1,490             | 2,955             | 9,813             | 36,810            | 71,115            | 43,380            | 9,812             | 1,233             | 144                 | 231        |
| 20-24 years .....                          | 74,294                       | 7.6     | 981,929                  | 1,483               | 5,479         | 6,614             | 13,787            | 46,931            | 179,377           | 383,073           | 265,074           | 67,981            | 9,918             | 1,041               | 1,171      |
| 25-29 years .....                          | 72,455                       | 6.7     | 1,078,252                | 1,430               | 5,491         | 6,778             | 14,300            | 44,456            | 164,320           | 399,715           | 325,737           | 97,453            | 15,667            | 1,669               | 1,236      |
| 30-34 years .....                          | 62,184                       | 7.0     | 892,400                  | 1,227               | 4,807         | 6,151             | 12,729            | 37,270            | 126,360           | 315,460           | 279,369           | 90,599            | 15,602            | 1,801               | 1,025      |
| 35-39 years .....                          | 36,328                       | 8.4     | 434,294                  | 715                 | 2,672         | 3,812             | 7,857             | 21,272            | 64,576            | 148,173           | 130,951           | 44,643            | 8,018             | 1,025               | 580        |
| 40-44 years .....                          | 8,364                        | 10.1    | 83,090                   | 158                 | 606           | 884               | 1,874             | 4,842             | 13,242            | 27,609            | 23,655            | 8,209             | 1,639             | 234                 | 138        |
| 45-54 years .....                          | 793                          | 18.3    | 4,348                    | 11                  | 57            | 82                | 230               | 413               | 815               | 1,268             | 1,048             | 319               | 86                | 9                   | 10         |
| <b>White, total</b>                        |                              |         |                          |                     |               |                   |                   |                   |                   |                   |                   |                   |                   |                     |            |
| All ages .....                             | 205,561                      | 6.6     | 3,132,501                | 3,272               | 13,730        | 19,022            | 41,042            | 128,495           | 468,684           | 1,150,762         | 959,432           | 291,799           | 47,564            | 5,238               | 3,461      |
| Under 15 years .....                       | 512                          | 10.8    | 4,739                    | 15                  | 58            | 66                | 92                | 281               | 961               | 1,977             | 1,075             | 185               | 18                | -                   | 11         |
| 15-19 years .....                          | 27,488                       | 8.1     | 337,888                  | 418                 | 1,925         | 2,563             | 5,086             | 17,496            | 66,027            | 136,706           | 85,483            | 19,189            | 2,327             | 245                 | 423        |
| 15 years .....                             | 1,376                        | 9.7     | 14,193                   | 20                  | 119           | 139               | 264               | 834               | 3,077             | 5,842             | 3,206             | 609               | 53                | 5                   | 25         |
| 16 years .....                             | 3,111                        | 9.0     | 34,649                   | 54                  | 243           | 301               | 542               | 1,971             | 7,086             | 14,053            | 8,428             | 1,709             | 198               | 23                  | 41         |
| 17 years .....                             | 5,375                        | 8.6     | 62,782                   | 96                  | 392           | 484               | 1,017             | 3,386             | 12,616            | 25,626            | 15,400            | 3,274             | 384               | 30                  | 77         |
| 18 years .....                             | 7,926                        | 8.2     | 96,254                   | 96                  | 532           | 722               | 1,462             | 5,114             | 18,934            | 39,053            | 24,046            | 5,439             | 668               | 62                  | 126        |
| 19 years .....                             | 9,700                        | 7.5     | 130,010                  | 152                 | 639           | 917               | 1,801             | 6,191             | 24,314            | 52,132            | 34,403            | 8,158             | 1,024             | 125                 | 154        |
| 20-24 years .....                          | 47,931                       | 6.4     | 748,371                  | 749                 | 3,090         | 4,087             | 8,891             | 31,114            | 124,436           | 291,122           | 216,757           | 57,897            | 8,538             | 891                 | 799        |
| 25-29 years .....                          | 51,081                       | 5.9     | 873,654                  | 754                 | 3,397         | 4,611             | 10,177            | 32,142            | 121,524           | 319,795           | 278,857           | 86,189            | 13,889            | 1,431               | 888        |
| 30-34 years .....                          | 45,567                       | 6.2     | 739,948                  | 752                 | 3,132         | 4,376             | 9,483             | 27,824            | 96,025            | 257,445           | 243,271           | 81,211            | 14,093            | 1,566               | 770        |
| 35-39 years .....                          | 26,313                       | 7.4     | 356,959                  | 465                 | 1,698         | 2,642             | 5,761             | 15,747            | 49,135            | 120,523           | 112,881           | 39,614            | 7,154             | 887                 | 452        |
| 40-44 years .....                          | 6,035                        | 9.0     | 67,419                   | 109                 | 386           | 617               | 1,376             | 3,547             | 9,921             | 22,195            | 20,234            | 7,244             | 1,468             | 211                 | 111        |
| 45-54 years .....                          | 634                          | 18.0    | 3,523                    | 10                  | 44            | 60                | 176               | 344               | 655               | 999               | 874               | 270               | 77                | 7                   | 7          |
| <b>White, non-Hispanic</b>                 |                              |         |                          |                     |               |                   |                   |                   |                   |                   |                   |                   |                   |                     |            |
| All ages .....                             | 155,613                      | 6.6     | 2,346,450                | 2,365               | 10,165        | 14,481            | 31,610            | 96,992            | 340,563           | 842,394           | 733,006           | 230,650           | 37,836            | 3,987               | 2,401      |
| Under 15 years .....                       | 233                          | 11.4    | 2,048                    | 5                   | 24            | 35                | 41                | 128               | 396               | 802               | 501               | 103               | 11                | -                   | 2          |
| 15-19 years .....                          | 17,821                       | 8.4     | 212,923                  | 288                 | 1,263         | 1,711             | 3,466             | 11,093            | 40,085            | 83,506            | 55,899            | 13,489            | 1,692             | 177                 | 254        |
| 15 years .....                             | 741                          | 10.7    | 6,963                    | 11                  | 74            | 77                | 170               | 409               | 1,387             | 2,732             | 1,704             | 344               | 35                | 3                   | 17         |
| 16 years .....                             | 1,737                        | 9.2     | 18,886                   | 34                  | 135           | 175               | 324               | 1,069             | 3,659             | 7,357             | 4,856             | 1,104             | 133               | 18                  | 22         |
| 17 years .....                             | 3,323                        | 8.8     | 37,671                   | 65                  | 257           | 320               | 663               | 2,018             | 7,244             | 14,881            | 9,651             | 2,226             | 281               | 20                  | 45         |
| 18 years .....                             | 5,290                        | 8.5     | 62,282                   | 70                  | 351           | 496               | 1,021             | 3,352             | 11,844            | 24,575            | 16,102            | 3,866             | 491               | 40                  | 74         |
| 19 years .....                             | 6,730                        | 7.7     | 87,121                   | 108                 | 446           | 643               | 1,288             | 4,245             | 15,951            | 33,961            | 23,586            | 5,949             | 752               | 96                  | 96         |
| 20-24 years .....                          | 33,979                       | 6.6     | 514,386                  | 517                 | 2,173         | 2,937             | 6,329             | 22,023            | 83,875            | 195,076           | 151,514           | 42,406            | 6,389             | 624                 | 523        |
| 25-29 years .....                          | 39,482                       | 6.0     | 663,569                  | 556                 | 2,566         | 3,625             | 7,916             | 24,819            | 90,863            | 238,676           | 214,243           | 67,616            | 10,973            | 1,086               | 630        |
| 30-34 years .....                          | 37,067                       | 6.2     | 600,830                  | 549                 | 2,491         | 3,500             | 7,824             | 22,703            | 76,756            | 206,647           | 199,409           | 67,560            | 11,587            | 1,232               | 572        |
| 35-39 years .....                          | 21,566                       | 7.3     | 294,590                  | 352                 | 1,319         | 2,132             | 4,731             | 13,032            | 40,044            | 98,851            | 93,972            | 33,206            | 5,914             | 698                 | 339        |
| 40-44 years .....                          | 4,911                        | 8.9     | 55,175                   | 89                  | 293           | 492               | 1,141             | 2,896             | 7,996             | 18,028            | 16,750            | 6,045             | 1,203             | 167                 | 75         |
| 45-54 years .....                          | 554                          | 19.0    | 2,929                    | 9                   | 36            | 49                | 162               | 298               | 548               | 808               | 718               | 225               | 67                | 3                   | 6          |

See footnotes at end of table.

**Table 46. Number and percent of births of low birthweight by race and Hispanic origin of mother: United States, each State and territory, 1999**

[By place of residence. Low birthweight is birthweight of less than 2,500 grams (5 lb 8 oz)]

| State                            | Number                 |         |              |        |              |                       | Percent                |       |              |       |              |                       |
|----------------------------------|------------------------|---------|--------------|--------|--------------|-----------------------|------------------------|-------|--------------|-------|--------------|-----------------------|
|                                  | All races <sup>1</sup> | White   |              | Black  |              | Hispanic <sup>2</sup> | All races <sup>1</sup> | White |              | Black |              | Hispanic <sup>2</sup> |
|                                  |                        | Total   | Non-Hispanic | Total  | Non-Hispanic |                       |                        | Total | Non-Hispanic | Total | Non-Hispanic |                       |
| United States <sup>3</sup> ..... | 301,183                | 205,561 | 155,613      | 79,322 | 77,826       | 48,688                | 7.6                    | 6.6   | 6.6          | 13.1  | 13.2         | 6.4                   |
| Alabama .....                    | 5,787                  | 3,048   | 2,947        | 2,690  | 2,686        | 105                   | 9.3                    | 7.3   | 7.3          | 13.6  | 13.6         | 6.6                   |
| Alaska .....                     | 577                    | 348     | 317          | 46     | 43           | 39                    | 5.8                    | 5.3   | 5.2          | 10.5  | 10.1         | 6.6                   |
| Arizona .....                    | 5,575                  | 4,685   | 2,533        | 330    | 319          | 2,147                 | 6.9                    | 6.6   | 6.5          | 12.1  | 12.3         | 6.7                   |
| Arkansas .....                   | 3,161                  | 2,106   | 1,991        | 995    | 993          | 115                   | 8.6                    | 7.4   | 7.5          | 13.0  | 13.0         | 5.9                   |
| California .....                 | 31,714                 | 23,372  | 9,575        | 4,145  | 4,052        | 13,805                | 6.1                    | 5.5   | 5.6          | 11.7  | 11.8         | 5.5                   |
| Colorado .....                   | 5,184                  | 4,542   | 3,238        | 399    | 391          | 1,329                 | 8.3                    | 8.0   | 8.0          | 13.8  | 14.0         | 8.2                   |
| Connecticut .....                | 3,294                  | 2,467   | 1,772        | 702    | 669          | 574                   | 7.6                    | 6.8   | 6.3          | 13.1  | 13.4         | 9.1                   |
| Delaware .....                   | 918                    | 526     | 466          | 368    | 368          | 60                    | 8.6                    | 6.8   | 6.8          | 13.8  | 13.9         | 7.0                   |
| District of Columbia .....       | 987                    | 141     | 94           | 831    | 823          | 48                    | 13.1                   | 6.4   | 6.7          | 16.1  | 16.1         | 6.1                   |
| Florida .....                    | 16,096                 | 10,132  | 7,552        | 5,513  | 5,426        | 2,669                 | 8.2                    | 6.9   | 7.1          | 12.2  | 12.3         | 6.4                   |
| Georgia .....                    | 11,027                 | 5,426   | 4,777        | 5,366  | 5,299        | 607                   | 8.7                    | 6.7   | 6.8          | 12.7  | 12.8         | 5.8                   |
| Hawaii .....                     | 1,280                  | 217     | 172          | 45     | 43           | 175                   | 7.6                    | 5.4   | 5.2          | 9.8   | 10.1         | 8.0                   |
| Idaho .....                      | 1,226                  | 1,165   | 1,019        | 8      | 8            | 141                   | 6.2                    | 6.1   | 6.1          | *     | *            | 6.0                   |
| Illinois .....                   | 14,567                 | 9,093   | 6,746        | 4,858  | 4,839        | 2,359                 | 8.0                    | 6.5   | 6.5          | 14.2  | 14.2         | 6.4                   |
| Indiana .....                    | 6,728                  | 5,439   | 5,137        | 1,192  | 1,190        | 281                   | 7.9                    | 7.2   | 7.3          | 12.9  | 12.9         | 6.5                   |
| Iowa .....                       | 2,314                  | 2,080   | 1,946        | 147    | 141          | 105                   | 6.2                    | 5.9   | 5.9          | 12.6  | 12.6         | 5.7                   |
| Kansas .....                     | 2,750                  | 2,309   | 2,024        | 348    | 348          | 264                   | 7.1                    | 6.7   | 6.7          | 12.2  | 12.3         | 6.2                   |
| Kentucky .....                   | 4,466                  | 3,727   | 3,668        | 695    | 689          | 60                    | 8.2                    | 7.6   | 7.7          | 14.0  | 14.0         | 6.3                   |
| Louisiana .....                  | 6,704                  | 2,664   | 2,574        | 3,941  | 3,921        | 96                    | 10.0                   | 6.9   | 7.0          | 14.5  | 14.5         | 6.2                   |
| Maine .....                      | 818                    | 792     | 757          | 12     | 10           | 4                     | 6.0                    | 6.0   | 6.1          | *     | *            | *                     |
| Maryland .....                   | 6,495                  | 2,989   | 2,708        | 3,271  | 3,252        | 294                   | 9.0                    | 6.7   | 6.7          | 13.5  | 13.5         | 7.2                   |
| Massachusetts .....              | 5,693                  | 4,475   | 3,848        | 886    | 770          | 720                   | 7.1                    | 6.6   | 6.4          | 10.9  | 11.8         | 8.2                   |
| Michigan .....                   | 10,655                 | 6,811   | 5,829        | 3,496  | 3,462        | 416                   | 8.0                    | 6.5   | 6.4          | 14.6  | 14.7         | 6.7                   |
| Minnesota .....                  | 4,009                  | 3,219   | 2,899        | 440    | 432          | 199                   | 6.1                    | 5.6   | 5.7          | 11.0  | 11.0         | 6.0                   |
| Mississippi .....                | 4,412                  | 1,673   | 1,641        | 2,682  | 2,681        | 281                   | 10.3                   | 7.4   | 7.4          | 13.8  | 13.8         | 6.2                   |
| Missouri .....                   | 5,831                  | 4,180   | 4,046        | 1,546  | 1,542        | 132                   | 7.7                    | 6.7   | 6.7          | 13.7  | 13.7         | 5.8                   |
| Montana .....                    | 738                    | 642     | 622          | 3      | 3            | 16                    | 6.8                    | 6.8   | 6.9          | *     | *            | *                     |
| Nebraska .....                   | 1,610                  | 1,380   | 1,199        | 163    | 163          | 152                   | 6.7                    | 6.4   | 6.4          | 12.9  | 13.0         | 6.6                   |
| Nevada .....                     | 2,220                  | 1,757   | 1,178        | 272    | 266          | 566                   | 7.6                    | 7.0   | 7.6          | 12.4  | 12.6         | 6.1                   |
| New Hampshire .....              | 869                    | 840     | 756          | 16     | 16           | 26                    | 6.2                    | 6.2   | 5.9          | *     | *            | 7.3                   |
| New Jersey .....                 | 9,299                  | 5,800   | 4,338        | 2,818  | 2,675        | 1,539                 | 8.2                    | 6.9   | 6.7          | 13.4  | 14.0         | 7.2                   |
| New Mexico .....                 | 2,080                  | 1,738   | 702          | 61     | 59           | 1,051                 | 7.7                    | 7.6   | 7.7          | 12.3  | 12.8         | 7.6                   |
| New York .....                   | 20,038                 | 12,411  | 8,088        | 6,249  | 5,757        | 4,002                 | 7.8                    | 6.8   | 6.5          | 11.7  | 12.1         | 7.6                   |
| North Carolina .....             | 10,089                 | 5,832   | 5,211        | 3,900  | 3,883        | 632                   | 8.9                    | 7.2   | 7.3          | 13.7  | 13.7         | 6.4                   |
| North Dakota .....               | 474                    | 421     | 408          | 2      | 2            | 4                     | 6.2                    | 6.2   | 6.3          | *     | *            | *                     |
| Ohio .....                       | 12,006                 | 8,784   | 8,529        | 3,019  | 2,940        | 255                   | 7.9                    | 6.9   | 6.9          | 13.7  | 13.7         | 7.5                   |
| Oklahoma .....                   | 3,598                  | 2,708   | 2,446        | 545    | 525          | 230                   | 7.4                    | 7.0   | 7.2          | 11.9  | 11.8         | 5.9                   |
| Oregon .....                     | 2,430                  | 2,185   | 1,811        | 97     | 95           | 359                   | 5.4                    | 5.3   | 5.3          | 10.7  | 10.8         | 5.2                   |
| Pennsylvania .....               | 11,489                 | 8,281   | 7,610        | 2,900  | 2,856        | 654                   | 7.9                    | 6.8   | 6.7          | 14.3  | 14.3         | 9.1                   |
| Rhode Island .....               | 900                    | 734     | 490          | 110    | 99           | 133                   | 7.3                    | 6.8   | 6.7          | 11.3  | 11.7         | 7.1                   |
| South Carolina .....             | 5,402                  | 2,524   | 2,437        | 2,806  | 2,800        | 95                    | 9.8                    | 7.2   | 7.3          | 14.7  | 14.7         | 5.5                   |
| South Dakota .....               | 619                    | 511     | 503          | 10     | 10           | 9                     | 5.9                    | 5.9   | 5.9          | *     | *            | *                     |
| Tennessee .....                  | 7,148                  | 4,713   | 4,554        | 2,335  | 2,332        | 161                   | 9.2                    | 7.9   | 7.9          | 14.2  | 14.2         | 6.6                   |
| Texas .....                      | 25,696                 | 19,787  | 9,301        | 5,042  | 4,978        | 10,461                | 7.4                    | 6.6   | 6.7          | 12.6  | 12.6         | 6.6                   |
| Utah .....                       | 3,155                  | 2,960   | 2,587        | 36     | 36           | 364                   | 6.8                    | 6.7   | 6.7          | 13.6  | 14.2         | 6.7                   |
| Vermont .....                    | 371                    | 365     | 352          | 3      | 3            | 2                     | 5.7                    | 5.7   | 5.6          | *     | *            | *                     |
| Virginia .....                   | 7,389                  | 4,394   | 4,020        | 2,665  | 2,659        | 381                   | 7.8                    | 6.4   | 6.5          | 12.0  | 12.1         | 5.8                   |
| Washington .....                 | 4,578                  | 3,685   | 2,979        | 344    | 308          | 542                   | 5.8                    | 5.5   | 5.4          | 10.4  | 10.2         | 5.3                   |
| West Virginia .....              | 1,663                  | 1,558   | 1,553        | 92     | 92           | 5                     | 8.0                    | 7.9   | 7.9          | 12.3  | 12.4         | *                     |
| Wisconsin .....                  | 4,542                  | 3,459   | 3,226        | 871    | 861          | 247                   | 6.7                    | 5.9   | 5.9          | 13.4  | 13.4         | 6.1                   |
| Wyoming .....                    | 512                    | 466     | 437          | 11     | 11           | 30                    | 8.4                    | 8.1   | 8.4          | *     | *            | 5.7                   |
| Puerto Rico .....                | 6,789                  | 6,220   | ---          | 568    | ---          | ---                   | 11.4                   | 11.4  | ---          | 11.4  | ---          | ---                   |
| Virgin Islands .....             | 168                    | 32      | 4            | 132    | 118          | 40                    | 10.1                   | 10.3  | *            | 10.3  | 10.3         | 13.3                  |
| Guam .....                       | 314                    | 7       | 7            | 4      | 4            | 1                     | 7.8                    | *     | *            | *     | *            | *                     |
| American Samoa .....             | 62                     | -       | ---          | -      | ---          | ---                   | 3.6                    | *     | ---          | *     | ---          | ---                   |
| Northern Marianas .....          | 107                    | 2       | ---          | -      | ---          | ---                   | 8.2                    | *     | ---          | *     | ---          | ---                   |

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.

--- Data not available.

- Quantity zero.

<sup>1</sup> Includes races other than white and black and origin not stated.<sup>2</sup> Includes all persons of Hispanic origin of any race.<sup>3</sup> Excludes data for the territories.

**Table 47. Number and percent of births of very low birthweight by race and Hispanic origin of mother: United States, each State and territory, 1999**

[By place of residence. Very low birthweight is birthweight of less than 1,500 grams (3 lb 4 oz)]

| State                            | Number                 |        |              |        |              |                       | Percent                |       |              |       |              |                       |
|----------------------------------|------------------------|--------|--------------|--------|--------------|-----------------------|------------------------|-------|--------------|-------|--------------|-----------------------|
|                                  | All races <sup>1</sup> | White  |              | Black  |              | Hispanic <sup>2</sup> | All races <sup>1</sup> | White |              | Black |              | Hispanic <sup>2</sup> |
|                                  |                        | Total  | Non-Hispanic | Total  | Non-Hispanic |                       |                        | Total | Non-Hispanic | Total | Non-Hispanic |                       |
| United States <sup>3</sup> ..... | 57,477                 | 36,024 | 27,011       | 19,006 | 18,713       | 8,706                 | 1.5                    | 1.2   | 1.2          | 3.1   | 3.2          | 1.1                   |
| Alabama .....                    | 1,251                  | 570    | 555          | 669    | 669          | 15                    | 2.0                    | 1.4   | 1.4          | 3.4   | 3.4          | *                     |
| Alaska .....                     | 100                    | 66     | 61           | 9      | 8            | 8                     | 1.0                    | 1.0   | 1.0          | *     | *            | *                     |
| Arizona .....                    | 875                    | 724    | 393          | 72     | 69           | 325                   | 1.1                    | 1.0   | 1.0          | 2.6   | 2.7          | 1.0                   |
| Arkansas .....                   | 596                    | 365    | 351          | 226    | 226          | 14                    | 1.6                    | 1.3   | 1.3          | 2.9   | 3.0          | *                     |
| California .....                 | 5,937                  | 4,252  | 1,675        | 1,035  | 1,016        | 2,557                 | 1.1                    | 1.0   | 1.0          | 2.9   | 3.0          | 1.0                   |
| Colorado .....                   | 762                    | 661    | 464          | 78     | 75           | 203                   | 1.2                    | 1.2   | 1.1          | 2.7   | 2.7          | 1.2                   |
| Connecticut .....                | 683                    | 495    | 330          | 177    | 171          | 129                   | 1.6                    | 1.4   | 1.2          | 3.3   | 3.4          | 2.0                   |
| Delaware .....                   | 205                    | 105    | 87           | 95     | 95           | 18                    | 1.9                    | 1.4   | 1.3          | 3.6   | 3.6          | *                     |
| District of Columbia .....       | 253                    | 27     | 16           | 225    | 225          | 10                    | 3.4                    | 1.2   | *            | 4.4   | 4.4          | *                     |
| Florida .....                    | 3,192                  | 1,805  | 1,340        | 1,333  | 1,318        | 473                   | 1.6                    | 1.2   | 1.3          | 3.0   | 3.0          | 1.1                   |
| Georgia .....                    | 2,139                  | 887    | 784          | 1,216  | 1,201        | 97                    | 1.7                    | 1.1   | 1.1          | 2.9   | 2.9          | 0.9                   |
| Hawaii .....                     | 210                    | 42     | 35           | 10     | 9            | 20                    | 1.2                    | 1.1   | 1.1          | *     | *            | 0.9                   |
| Idaho .....                      | 213                    | 201    | 175          | 4      | 4            | 25                    | 1.1                    | 1.0   | 1.0          | *     | *            | 1.1                   |
| Illinois .....                   | 3,004                  | 1,691  | 1,183        | 1,202  | 1,194        | 510                   | 1.7                    | 1.2   | 1.1          | 3.5   | 3.5          | 1.4                   |
| Indiana .....                    | 1,243                  | 951    | 893          | 278    | 277          | 59                    | 1.5                    | 1.3   | 1.3          | 3.0   | 3.0          | 1.4                   |
| Iowa .....                       | 417                    | 378    | 347          | 28     | 28           | 20                    | 1.1                    | 1.1   | 1.0          | 2.4   | 2.5          | 1.1                   |
| Kansas .....                     | 499                    | 415    | 362          | 72     | 72           | 49                    | 1.3                    | 1.2   | 1.2          | 2.5   | 2.6          | 1.1                   |
| Kentucky .....                   | 838                    | 674    | 663          | 162    | 161          | 9                     | 1.5                    | 1.4   | 1.4          | 3.3   | 3.3          | *                     |
| Louisiana .....                  | 1,378                  | 445    | 431          | 921    | 920          | 18                    | 2.1                    | 1.2   | 1.2          | 3.4   | 3.4          | *                     |
| Maine .....                      | 147                    | 139    | 138          | 3      | 3            | -                     | 1.1                    | 1.1   | 1.1          | *     | *            | *                     |
| Maryland .....                   | 1,412                  | 490    | 446          | 885    | 884          | 48                    | 2.0                    | 1.1   | 1.1          | 3.6   | 3.7          | 1.2                   |
| Massachusetts .....              | 1,102                  | 819    | 690          | 234    | 212          | 137                   | 1.4                    | 1.2   | 1.1          | 2.9   | 3.2          | 1.6                   |
| Michigan .....                   | 2,181                  | 1,250  | 1,060        | 879    | 867          | 68                    | 1.6                    | 1.2   | 1.2          | 3.7   | 3.7          | 1.1                   |
| Minnesota .....                  | 720                    | 568    | 515          | 110    | 108          | 40                    | 1.1                    | 1.0   | 1.0          | 2.7   | 2.8          | 1.2                   |
| Mississippi .....                | 903                    | 316    | 310          | 575    | 575          | 6                     | 2.1                    | 1.4   | 1.4          | 3.0   | 3.0          | *                     |
| Missouri .....                   | 1,145                  | 739    | 718          | 390    | 387          | 21                    | 1.5                    | 1.2   | 1.2          | 3.5   | 3.4          | 0.9                   |
| Montana .....                    | 121                    | 95     | 92           | 1      | 1            | 3                     | 1.1                    | 1.0   | 1.0          | *     | *            | *                     |
| Nebraska .....                   | 291                    | 246    | 214          | 37     | 37           | 26                    | 1.2                    | 1.1   | 1.1          | 2.9   | 2.9          | 1.1                   |
| Nevada .....                     | 325                    | 235    | 149          | 57     | 56           | 85                    | 1.1                    | 0.9   | 1.0          | 2.6   | 2.6          | 0.9                   |
| New Hampshire .....              | 165                    | 158    | 127          | 2      | 2            | 8                     | 1.2                    | 1.2   | 1.0          | *     | *            | *                     |
| New Jersey .....                 | 2,003                  | 1,170  | 849          | 739    | 713          | 317                   | 1.8                    | 1.4   | 1.3          | 3.5   | 3.7          | 1.5                   |
| New Mexico .....                 | 315                    | 259    | 106          | 6      | 6            | 159                   | 1.2                    | 1.1   | 1.2          | *     | *            | 1.2                   |
| New York .....                   | 3,918                  | 2,217  | 1,389        | 1,511  | 1,422        | 788                   | 1.5                    | 1.2   | 1.1          | 2.8   | 3.0          | 1.5                   |
| North Carolina .....             | 2,161                  | 1,118  | 990          | 971    | 968          | 130                   | 1.9                    | 1.4   | 1.4          | 3.4   | 3.4          | 1.3                   |
| North Dakota .....               | 73                     | 64     | 60           | -      | -            | 3                     | 1.0                    | 0.9   | 0.9          | *     | *            | *                     |
| Ohio .....                       | 2,241                  | 1,525  | 1,479        | 693    | 680          | 46                    | 1.5                    | 1.2   | 1.2          | 3.1   | 3.2          | 1.3                   |
| Oklahoma .....                   | 602                    | 432    | 397          | 117    | 114          | 33                    | 1.2                    | 1.1   | 1.2          | 2.6   | 2.6          | 0.8                   |
| Oregon .....                     | 420                    | 379    | 314          | 15     | 15           | 64                    | 0.9                    | 0.9   | 0.9          | *     | *            | 0.9                   |
| Pennsylvania .....               | 2,274                  | 1,548  | 1,427        | 688    | 675          | 112                   | 1.6                    | 1.3   | 1.3          | 3.4   | 3.4          | 1.6                   |
| Rhode Island .....               | 182                    | 141    | 89           | 26     | 22           | 31                    | 1.5                    | 1.3   | 1.2          | 2.7   | 2.6          | 1.7                   |
| South Carolina .....             | 1,107                  | 434    | 421          | 664    | 663          | 14                    | 2.0                    | 1.2   | 1.3          | 3.5   | 3.5          | *                     |
| South Dakota .....               | 107                    | 84     | 83           | 3      | 3            | 1                     | 1.0                    | 1.0   | 1.0          | *     | *            | *                     |
| Tennessee .....                  | 1,255                  | 699    | 675          | 535    | 535          | 25                    | 1.6                    | 1.2   | 1.2          | 3.2   | 3.2          | 1.0                   |
| Texas .....                      | 4,511                  | 3,255  | 1,539        | 1,140  | 1,126        | 1,714                 | 1.3                    | 1.1   | 1.1          | 2.8   | 2.9          | 1.1                   |
| Utah .....                       | 514                    | 486    | 427          | 7      | 7            | 55                    | 1.1                    | 1.1   | 1.1          | *     | *            | 1.0                   |
| Vermont .....                    | 69                     | 67     | 62           | -      | -            | -                     | 1.1                    | 1.0   | 1.0          | *     | *            | *                     |
| Virginia .....                   | 1,484                  | 803    | 732          | 632    | 632          | 70                    | 1.6                    | 1.2   | 1.2          | 2.9   | 2.9          | 1.1                   |
| Washington .....                 | 742                    | 583    | 460          | 68     | 61           | 94                    | 0.9                    | 0.9   | 0.8          | 2.1   | 2.0          | 0.9                   |
| West Virginia .....              | 271                    | 246    | 246          | 21     | 21           | -                     | 1.3                    | 1.2   | 1.3          | 2.8   | 2.8          | *                     |
| Wisconsin .....                  | 859                    | 645    | 607          | 183    | 178          | 44                    | 1.3                    | 1.1   | 1.1          | 2.8   | 2.8          | 1.1                   |
| Wyoming .....                    | 62                     | 60     | 55           | 2      | 2            | 5                     | 1.0                    | 1.0   | 1.1          | *     | *            | *                     |
| Puerto Rico .....                | 787                    | 725    | ---          | 61     | ---          | ---                   | 1.3                    | 1.3   | ---          | 1.2   | ---          | ---                   |
| Virgin Islands .....             | 41                     | 4      | -            | 37     | 34           | 6                     | 2.5                    | *     | *            | 2.9   | 3.0          | *                     |
| Guam .....                       | 26                     | 1      | 1            | 1      | 1            | -                     | 0.6                    | *     | *            | *     | *            | *                     |
| American Samoa .....             | 8                      | -      | ---          | -      | ---          | ---                   | *                      | *     | ---          | *     | ---          | ---                   |
| Northern Marianas .....          | 14                     | 1      | ---          | -      | ---          | ---                   | *                      | *     | ---          | *     | ---          | ---                   |

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.

- Quantity zero.

--- Data not available.

<sup>1</sup> Includes races other than white and black and origin not stated.<sup>2</sup> Includes all persons of Hispanic origin of any race.<sup>3</sup> Excludes data for the territories.



**Table 48. Live births with selected abnormal conditions of the newborn and rates by age of mother, by race of mother: United States, 1999**

[Rates are number of live births with specified abnormal condition per 1,000 live births in specified group]

| Abnormal condition and race of mother                        | All births <sup>1</sup> | Abnormal condition reported | Age of mother |                |             |             |             |             |             | Not stated <sup>2</sup> |
|--|-------------------------|-----------------------------|---------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
|  |                         |                             | All ages      | Under 20 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-54 years |                         |
| All races <sup>3</sup>                                       |                         |                             |               |                |             |             |             |             |             |                         |
| Anemia .....   | 3,959,417               | 4,191                       | 1.1           | 1.1            | 1.0         | 1.0         | 1.1         | 1.2         | 1.4         | 100,783                 |
| Birth injury <sup>4</sup> .....                              | 3,586,265               | 9,980                       | 2.9           | 2.8            | 2.9         | 3.0         | 2.8         | 2.9         | 2.5         | 103,435                 |
| Fetal alcohol syndrome <sup>5</sup> .....                    | 3,891,209               | 148                         | 0.0           | *              | 0.0         | 0.0         | 0.0         | 0.1         | *           | 101,892                 |
| Hyaline membrane disease/RDS .....                           | 3,959,417               | 24,147                      | 6.3           | 6.9            | 6.3         | 6.1         | 6.0         | 6.4         | 7.3         | 100,783                 |
| Meconium aspiration syndrome .....                           | 3,959,417               | 7,681                       | 2.0           | 2.2            | 2.1         | 1.9         | 1.8         | 2.0         | 2.1         | 100,783                 |
| Assisted ventilation less than 30 minutes <sup>6</sup> ..... | 3,840,078               | 79,898                      | 21.4          | 21.9           | 20.6        | 21.3        | 21.5        | 22.3        | 23.8        | 109,831                 |
| Assisted ventilation 30 minutes or longer <sup>6</sup> ..... | 3,840,078               | 36,712                      | 9.8           | 11.2           | 9.5         | 9.1         | 9.6         | 10.8        | 13.3        | 109,831                 |
| Seizures .....   | 3,959,417               | 2,102                       | 0.5           | 0.6            | 0.6         | 0.5         | 0.5         | 0.5         | 0.6         | 100,783                 |
| White  |                         |                             |               |                |             |             |             |             |             |                         |
| Anemia .....   | 3,132,501               | 3,095                       | 1.0           | 1.0            | 1.0         | 1.0         | 1.0         | 1.1         | 1.4         | 75,931                  |
| Birth injury <sup>4</sup> .....                              | 2,812,735               | 8,230                       | 3.0           | 3.0            | 3.1         | 3.1         | 2.9         | 2.9         | 2.5         | 78,079                  |
| Fetal alcohol syndrome <sup>5</sup> .....                    | 3,073,731               | 80                          | 0.0           | *              | *           | 0.0         | *           | *           | *           | 76,973                  |
| Hyaline membrane disease/RDS .....                           | 3,132,501               | 19,406                      | 6.3           | 7.1            | 6.4         | 6.2         | 6.0         | 6.4         | 7.2         | 75,931                  |
| Meconium aspiration syndrome .....                           | 3,132,501               | 5,534                       | 1.8           | 2.1            | 1.9         | 1.8         | 1.7         | 1.8         | 2.0         | 75,931                  |
| Assisted ventilation less than 30 minutes <sup>6</sup> ..... | 3,065,587               | 65,053                      | 21.8          | 22.3           | 20.9        | 21.8        | 21.8        | 22.9        | 24.4        | 83,194                  |
| Assisted ventilation 30 minutes or longer <sup>6</sup> ..... | 3,065,587               | 28,407                      | 9.5           | 10.8           | 9.1         | 8.9         | 9.3         | 10.5        | 13.0        | 83,194                  |
| Seizures .....   | 3,132,501               | 1,638                       | 0.5           | 0.6            | 0.5         | 0.5         | 0.5         | 0.5         | 0.6         | 75,931                  |
| Black  |                         |                             |               |                |             |             |             |             |             |                         |
| Anemia .....   | 605,970                 | 869                         | 1.5           | 1.4            | 1.3         | 1.5         | 1.5         | 2.3         | 2.1         | 13,771                  |
| Birth injury <sup>4</sup> .....                              | 564,605                 | 955                         | 1.7           | 1.7            | 1.7         | 1.8         | 1.7         | 1.9         | *           | 14,083                  |
| Fetal alcohol syndrome <sup>5</sup> .....                    | 599,465                 | 50                          | 0.1           | *              | *           | *           | 0.2         | *           | *           | 13,818                  |
| Hyaline membrane disease/RDS .....                           | 605,970                 | 3,926                       | 6.6           | 6.5            | 6.3         | 6.3         | 7.0         | 7.8         | 10.5        | 13,771                  |
| Meconium aspiration syndrome .....                           | 605,970                 | 1,689                       | 2.9           | 2.6            | 2.7         | 2.9         | 3.1         | 3.4         | 3.1         | 13,771                  |
| Assisted ventilation less than 30 minutes <sup>6</sup> ..... | 567,257                 | 10,942                      | 19.8          | 20.0           | 19.4        | 19.4        | 20.7        | 20.3        | 22.1        | 14,724                  |
| Assisted ventilation 30 minutes or longer <sup>6</sup> ..... | 567,257                 | 6,754                       | 12.2          | 12.1           | 11.0        | 11.9        | 13.2        | 16.0        | 18.3        | 14,724                  |
| Seizures .....   | 605,970                 | 368                         | 0.6           | 0.6            | 0.6         | 0.6         | 0.6         | 0.6         | *           | 13,771                  |

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.

0.0 Quantity more than zero but less than 0.05.

<sup>1</sup> Total number of births to residents of areas reporting specified condition.<sup>2</sup> No response reported for the abnormal conditions item.<sup>3</sup> Includes races other than white and black.<sup>4</sup> Nebraska and Texas do not report this condition.<sup>5</sup> Wisconsin does not report this condition.<sup>6</sup> New York City does not report this condition.

NOTE: Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

**Table 49. Live births with selected congenital anomalies and rates by age of mother, by race of mother: Total of 49 reporting States and the District of Columbia, 1999**

[Rates are number of live births with specified congenital anomaly per 100,000 live births in specified group]

| Congenital anomaly and race of mother               | All births <sup>1</sup> | Congenital anomaly reported | Age of mother |                |             |             |             |             |             | Not stated <sup>2</sup> |
|---|-------------------------|-----------------------------|---------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------------------|
|   |                         |                             | All ages      | Under 20 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-54 years |                         |
| All races <sup>3</sup>                              |                         |                             |               |                |             |             |             |             |             |                         |
| Anencephalus .....                                  | 3,932,226               | 423                         | 11.0          | 13.1           | 10.1        | 12.0        | 8.6         | 12.0        | *           | 73,470                  |
| Spina bifida/Meningocele .....                      | 3,932,226               | 776                         | 20.1          | 21.4           | 20.8        | 21.8        | 17.2        | 17.5        | 27.0        | 73,470                  |
| Hydrocephalus .....                                 | 3,932,226               | 831                         | 21.5          | 27.1           | 22.1        | 21.1        | 19.4        | 18.7        | 25.9        | 73,470                  |
| Microcephalus .....                                 | 3,932,226               | 229                         | 5.9           | 5.9            | 6.2         | 5.0         | 5.7         | 8.0         | *           | 73,470                  |
| Other central nervous system anomalies .....        | 3,932,226               | 772                         | 20.0          | 24.6           | 21.1        | 18.6        | 16.8        | 22.0        | *           | 73,470                  |
| Heart malformations .....                           | 3,932,226               | 4,624                       | 119.8         | 99.5           | 113.0       | 113.6       | 118.6       | 156.3       | 217.4       | 73,470                  |
| Other circulatory/respiratory anomalies .....       | 3,932,226               | 5,426                       | 140.6         | 149.7          | 138.2       | 128.4       | 138.5       | 160.6       | 191.6       | 73,470                  |
| Rectal atresia/stenosis .....                       | 3,932,226               | 348                         | 9.0           | 8.7            | 9.3         | 8.2         | 8.6         | 10.4        | *           | 73,470                  |
| Tracheo-esophageal fistula/Esophageal atresia ..... | 3,932,226               | 513                         | 13.3          | 14.0           | 11.4        | 11.2        | 14.0        | 17.5        | 28.2        | 73,470                  |
| Omphalocele/Gastroschisis .....                     | 3,932,226               | 1,164                       | 30.2          | 73.6           | 39.9        | 19.9        | 14.5        | 19.6        | *           | 73,470                  |
| Other gastrointestinal anomalies .....              | 3,932,226               | 1,150                       | 29.8          | 34.1           | 29.2        | 26.7        | 27.8        | 35.4        | 43.5        | 73,470                  |
| Malformed genitalia .....                           | 3,932,226               | 2,946                       | 76.3          | 76.3           | 74.4        | 76.3        | 77.0        | 80.3        | 72.9        | 73,470                  |
| Renal agenesis .....                                | 3,932,226               | 528                         | 13.7          | 14.4           | 14.2        | 13.0        | 14.5        | 11.1        | *           | 73,470                  |
| Other urogenital anomalies .....                    | 3,932,226               | 3,822                       | 99.0          | 91.2           | 94.4        | 98.5        | 106.3       | 103.2       | 106.9       | 73,470                  |
| Cleft lip/palate .....                              | 3,932,226               | 3,123                       | 80.9          | 83.6           | 87.6        | 80.2        | 72.7        | 79.1        | 94.0        | 73,470                  |
| Polydactyly/Syndactyly/Adactyly .....               | 3,932,226               | 3,392                       | 87.9          | 115.2          | 104.2       | 79.9        | 69.6        | 79.1        | 84.6        | 73,470                  |
| Clubfoot .....                                      | 3,932,226               | 2,150                       | 55.7          | 65.3           | 58.8        | 53.7        | 48.2        | 56.4        | 65.8        | 73,470                  |
| Diaphragmatic hernia .....                          | 3,932,226               | 504                         | 13.1          | 12.1           | 14.6        | 12.1        | 13.8        | 12.0        | *           | 73,470                  |
| Other musculoskeletal/integumental anomalies .....  | 3,932,226               | 9,258                       | 239.9         | 251.1          | 237.4       | 225.9       | 240.2       | 260.0       | 277.3       | 73,470                  |
| Down's syndrome .....                               | 3,932,226               | 1,754                       | 45.5          | 20.6           | 22.1        | 26.1        | 41.3        | 119.5       | 358.4       | 73,470                  |
| Other chromosomal anomalies .....                   | 3,932,226               | 1,424                       | 36.9          | 28.4           | 30.4        | 29.0        | 34.6        | 66.1        | 132.8       | 73,470                  |
| White   |                         |                             |               |                |             |             |             |             |             |                         |
| Anencephalus .....                                  | 3,109,637               | 338                         | 11.1          | 15.3           | 10.7        | 11.6        | 8.6         | 11.2        | *           | 56,011                  |
| Spina bifida/Meningocele .....                      | 3,109,637               | 638                         | 20.9          | 23.2           | 22.0        | 23.2        | 17.4        | 16.7        | *           | 56,011                  |
| Hydrocephalus .....                                 | 3,109,637               | 656                         | 21.5          | 29.2           | 22.2        | 21.9        | 18.5        | 18.4        | *           | 56,011                  |
| Microcephalus .....                                 | 3,109,637               | 174                         | 5.7           | *              | 5.5         | 5.4         | 5.1         | 7.8         | *           | 56,011                  |
| Other central nervous system anomalies .....        | 3,109,637               | 635                         | 20.8          | 27.1           | 22.8        | 18.3        | 17.3        | 23.0        | *           | 56,011                  |
| Heart malformations .....                           | 3,109,637               | 3,683                       | 120.6         | 98.0           | 116.1       | 113.0       | 122.0       | 148.8       | 214.3       | 56,011                  |
| Other circulatory/respiratory anomalies .....       | 3,109,637               | 4,206                       | 137.7         | 156.1          | 138.3       | 124.8       | 134.6       | 147.6       | 185.3       | 56,011                  |
| Rectal atresia/stenosis .....                       | 3,109,637               | 296                         | 9.7           | 7.2            | 10.6        | 8.4         | 9.7         | 11.5        | *           | 56,011                  |
| Tracheo-esophageal fistula/Esophageal atresia ..... | 3,109,637               | 435                         | 14.2          | 15.6           | 11.8        | 11.7        | 14.9        | 18.7        | 34.7        | 56,011                  |
| Omphalocele/Gastroschisis .....                     | 3,109,637               | 876                         | 28.7          | 79.4           | 39.7        | 18.6        | 12.6        | 15.8        | *           | 56,011                  |
| Other gastrointestinal anomalies .....              | 3,109,637               | 914                         | 29.9          | 37.0           | 29.8        | 25.9        | 27.8        | 34.5        | 46.3        | 56,011                  |
| Malformed genitalia .....                           | 3,109,637               | 2,481                       | 81.2          | 84.2           | 80.6        | 82.2        | 78.9        | 84.4        | 70.9        | 56,011                  |
| Renal agenesis .....                                | 3,109,637               | 430                         | 14.1          | 14.1           | 15.0        | 13.4        | 15.4        | 10.9        | *           | 56,011                  |
| Other urogenital anomalies .....                    | 3,109,637               | 3,205                       | 105.0         | 98.6           | 101.7       | 102.4       | 112.1       | 106.6       | 118.7       | 56,011                  |
| Cleft lip/palate .....                              | 3,109,637               | 2,684                       | 87.9          | 96.5           | 99.0        | 85.9        | 75.7        | 85.0        | 97.0        | 56,011                  |
| Polydactyly/Syndactyly/Adactyly .....               | 3,109,637               | 1,892                       | 62.0          | 73.4           | 70.3        | 57.9        | 53.6        | 61.2        | 60.8        | 56,011                  |
| Clubfoot .....                                      | 3,109,637               | 1,854                       | 60.7          | 74.0           | 65.1        | 58.5        | 52.7        | 58.6        | 72.4        | 56,011                  |
| Diaphragmatic hernia .....                          | 3,109,637               | 416                         | 13.6          | 13.5           | 16.2        | 11.7        | 14.1        | 12.6        | *           | 56,011                  |
| Other musculoskeletal/integumental anomalies .....  | 3,109,637               | 5,729                       | 187.6         | 187.3          | 185.4       | 178.1       | 191.7       | 203.6       | 207.0       | 56,011                  |
| Down's syndrome .....                               | 3,109,637               | 1,534                       | 50.2          | 20.7           | 25.0        | 29.0        | 46.8        | 125.2       | 379.3       | 56,011                  |
| Other chromosomal anomalies .....                   | 3,109,637               | 1,179                       | 38.6          | 29.5           | 30.7        | 31.6        | 34.5        | 70.1        | 137.5       | 56,011                  |

See footnotes at end of table.

**Table 49. Live births with selected congenital anomalies and rates by age of mother, by race of mother: Total of 49 reporting States and the District of Columbia, 1999 --Con.**

[Rates are number of live births with specified congenital anomaly per 100,000 live births in specified group]

| Congenital anomaly and race of mother               | All births <sup>1</sup> | Congenital anomaly reported | Age of mother |                |             |             |             |             |             | Not stated <sup>2</sup> |       |
|---|-------------------------|-----------------------------|---------------|----------------|-------------|-------------|-------------|-------------|-------------|-------------------------|-------|
|   |                         |                             | All ages      | Under 20 years | 20-24 years | 25-29 years | 30-34 years | 35-39 years | 40-54 years |                         |       |
| Black   |                         |                             |               |                |             |             |             |             |             |                         |       |
| Anencephalus .....                                  | 605,473                 | 65                          | 10.9          | *              | *           | *           | *           | *           | *           | *                       | 8,593 |
| Spina bifida/Meningocele .....                      | 605,473                 | 116                         | 19.4          | 17.0           | 17.9        | 15.4        | 24.4        | *           | *           | *                       | 8,593 |
| Hydrocephalus .....                                 | 605,473                 | 139                         | 23.3          | 20.3           | 22.1        | 18.3        | 28.8        | *           | *           | *                       | 8,593 |
| Microcephalus .....                                 | 605,473                 | 40                          | 6.7           | *              | *           | *           | *           | *           | *           | *                       | 8,593 |
| Other central nervous system anomalies .....        | 605,473                 | 95                          | 15.9          | 16.2           | 15.8        | 19.0        | *           | *           | *           | *                       | 8,593 |
| Heart malformations .....                           | 605,473                 | 731                         | 122.5         | 94.0           | 105.7       | 128.0       | 114.3       | 231.6       | 284.6       | *                       | 8,593 |
| Other circulatory/respiratory anomalies .....       | 605,473                 | 820                         | 137.4         | 117.6          | 126.7       | 135.3       | 152.0       | 203.7       | *           | *                       | 8,593 |
| Rectal atresia/stenosis .....                       | 605,473                 | 40                          | 6.7           | *              | *           | *           | *           | *           | *           | *                       | 8,593 |
| Tracheo-esophageal fistula/Esophageal atresia ..... | 605,473                 | 59                          | 9.9           | *              | *           | *           | *           | *           | *           | *                       | 8,593 |
| Omphalocele/Gastroschisis .....                     | 605,473                 | 237                         | 39.7          | 55.9           | 37.9        | 31.5        | 34.4        | 47.2        | *           | *                       | 8,593 |
| Other gastrointestinal anomalies .....              | 605,473                 | 188                         | 31.5          | 29.2           | 26.3        | 37.3        | 28.8        | 45.0        | *           | *                       | 8,593 |
| Malformed genitalia .....                           | 605,473                 | 297                         | 49.8          | 49.5           | 47.3        | 41.0        | 63.2        | 53.6        | *           | *                       | 8,593 |
| Renal agenesis .....                                | 605,473                 | 76                          | 12.7          | *              | 12.6        | *           | *           | *           | *           | *                       | 8,593 |
| Other urogenital anomalies .....                    | 605,473                 | 418                         | 70.0          | 66.5           | 64.1        | 75.3        | 72.1        | 83.6        | *           | *                       | 8,593 |
| Cleft lip/palate .....                              | 605,473                 | 260                         | 43.6          | 47.8           | 37.3        | 41.7        | 44.4        | 55.8        | *           | *                       | 8,593 |
| Polydactyly/Syndactyly/Adactyly .....               | 605,473                 | 1,386                       | 232.2         | 231.9          | 241.8       | 228.9       | 214.1       | 225.2       | 294.8       | *                       | 8,593 |
| Clubfoot .....                                      | 605,473                 | 215                         | 36.0          | 39.7           | 38.9        | 32.2        | 25.5        | 45.0        | *           | *                       | 8,593 |
| Diaphragmatic hernia .....                          | 605,473                 | 65                          | 10.9          | *              | *           | *           | *           | *           | *           | *                       | 8,593 |
| Other musculoskeletal/integumental anomalies .....  | 605,473                 | 1,995                       | 334.2         | 296.7          | 299.1       | 328.4       | 389.4       | 456.8       | 477.8       | *                       | 8,593 |
| Down's syndrome .....                               | 605,473                 | 153                         | 25.6          | 21.1           | 12.6        | *           | *           | 87.9        | 294.8       | *                       | 8,593 |
| Other chromosomal anomalies .....                   | 605,473                 | 154                         | 25.8          | 18.6           | 23.7        | 15.4        | 33.3        | 47.2        | *           | *                       | 8,593 |

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.

<sup>1</sup> Total number of births.<sup>2</sup> No response reported for the congenital anomalies item.<sup>3</sup> Includes races other than white and black.

NOTES: Excludes data for New Mexico, which did not report congenital anomalies. Race and Hispanic origin are reported separately on birth certificates. In this table all women (including Hispanic women) are classified only according to their race; see Technical notes.

Table 50. Live births by plurality of birth and ratios, by age and race and Hispanic origin of mother: United States, 1999

| Plurality and race<br>and Hispanic origin<br>of mother                  | All<br>ages | Age of mother        |             |                |                |                |                |                |                |                |                |
|---|-------------|----------------------|-------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|   |             | Under<br>15<br>years | 15-19 years |                |                | 20-24<br>years | 25-29<br>years | 30-34<br>years | 35-39<br>years | 40-44<br>years | 45-54<br>years |
|   |             |                      | Total       | 15-17<br>years | 18-19<br>years |                |                |                |                |                |                |
| Number  |             |                      |             |                |                |                |                |                |                |                |                |
| <b>All live births</b>  |             |                      |             |                |                |                |                |                |                |                |                |
| All races <sup>1</sup> .....  | 3,959,417   | 9,054                | 476,050     | 163,588        | 312,462        | 981,929        | 1,078,252      | 892,400        | 434,294        | 83,090         | 4,348          |
| White, total .....  | 3,132,501   | 4,739                | 337,888     | 111,624        | 226,264        | 748,371        | 873,654        | 739,948        | 356,959        | 67,419         | 3,523          |
| White, non-Hispanic .....   | 2,346,450   | 2,048                | 212,923     | 63,520         | 149,403        | 514,386        | 663,569        | 600,830        | 294,590        | 55,175         | 2,929          |
| Black, total .....  | 605,970     | 3,977                | 121,166     | 45,919         | 75,247         | 193,211        | 138,868        | 91,486         | 47,277         | 9,564          | 421            |
| Black, non-Hispanic .....   | 588,981     | 3,890                | 118,285     | 44,851         | 73,434         | 188,247        | 134,784        | 88,403         | 45,746         | 9,223          | 403            |
| Hispanic <sup>2</sup> .....   | 764,339     | 2,725                | 124,677     | 48,229         | 76,448         | 231,475        | 203,985        | 131,369        | 58,146         | 11,440         | 522            |
| <b>Live births in single deliveries</b>                                 |             |                      |             |                |                |                |                |                |                |                |                |
| All races <sup>1</sup> .....  | 3,837,789   | 8,971                | 468,714     | 161,326        | 307,388        | 959,878        | 1,046,105      | 857,548        | 413,996        | 79,035         | 3,542          |
| White, total .....  | 3,035,757   | 4,696                | 333,192     | 110,189        | 223,003        | 733,193        | 847,912        | 710,358        | 339,701        | 63,899         | 2,806          |
| White, non-Hispanic .....   | 2,266,577   | 2,029                | 209,859     | 62,695         | 147,164        | 503,223        | 642,497        | 575,262        | 279,412        | 52,033         | 2,262          |
| Black, total .....  | 586,027     | 3,937                | 118,755     | 45,172         | 73,583         | 186,985        | 133,700        | 87,831         | 45,195         | 9,232          | 392            |
| Black, non-Hispanic .....   | 569,500     | 3,854                | 115,923     | 44,125         | 71,798         | 182,138        | 129,731        | 84,838         | 43,728         | 8,909          | 379            |
| Hispanic <sup>2</sup> .....   | 748,368     | 2,701                | 123,045     | 47,609         | 75,436         | 227,502        | 199,538        | 127,725        | 56,264         | 11,109         | 484            |
| <b>Live births in twin deliveries</b>                                   |             |                      |             |                |                |                |                |                |                |                |                |
| All races <sup>1</sup> .....  | 114,307     | 83                   | 7,270       | 2,239          | 5,031          | 21,640         | 30,494         | 31,926         | 18,485         | 3,699          | 710            |
| White, total .....  | 90,191      | 43                   | 4,655       | 1,421          | 3,234          | 14,880         | 24,257         | 26,903         | 15,622         | 3,195          | 636            |
| White, non-Hispanic .....   | 73,964      | 19                   | 3,038       | 817            | 2,221          | 10,924         | 19,741         | 23,124         | 13,673         | 2,847          | 598            |
| Black, total .....  | 19,374      | 40                   | 2,386       | 738            | 1,648          | 6,125          | 5,022          | 3,502          | 1,966          | 310            | 23             |
| Black, non-Hispanic .....   | 18,920      | 36                   | 2,337       | 717            | 1,620          | 6,011          | 4,909          | 3,412          | 1,902          | 292            | 21             |
| Hispanic <sup>2</sup> .....   | 15,388      | 24                   | 1,617       | 614            | 1,003          | 3,913          | 4,308          | 3,434          | 1,762          | 304            | 26             |
| <b>Live births in higher-order<br/>multiple deliveries <sup>3</sup></b> |             |                      |             |                |                |                |                |                |                |                |                |
| All races <sup>1</sup> .....  | 7,321       | -                    | 66          | 23             | 43             | 411            | 1,653          | 2,926          | 1,813          | 356            | 96             |
| White, total .....  | 6,553       | -                    | 41          | 14             | 27             | 298            | 1,485          | 2,687          | 1,636          | 325            | 81             |
| White, non-Hispanic .....   | 5,909       | -                    | 26          | 8              | 18             | 239            | 1,331          | 2,444          | 1,505          | 295            | 69             |
| Black, total .....  | 569         | -                    | 25          | 9              | 16             | 101            | 146            | 153            | 116            | 22             | 6              |
| Black, non-Hispanic .....   | 561         | -                    | 25          | 9              | 16             | 98             | 144            | 153            | 116            | 22             | 3              |
| Hispanic <sup>2</sup> .....   | 583         | -                    | 15          | 6              | 9              | 60             | 139            | 210            | 120            | 27             | 12             |
| <b>Ratio per 1,000 live births</b>                                      |             |                      |             |                |                |                |                |                |                |                |                |
| <b>All multiple births</b>  |             |                      |             |                |                |                |                |                |                |                |                |
| All races <sup>1</sup> .....  | 30.7        | 9.2                  | 15.4        | 13.8           | 16.2           | 22.5           | 29.8           | 39.1           | 46.7           | 48.8           | 185.4          |
| White, total .....  | 30.9        | 9.1                  | 13.9        | 12.9           | 14.4           | 20.3           | 29.5           | 40.0           | 48.3           | 52.2           | 203.5          |
| White, non-Hispanic .....   | 34.0        | *                    | 14.4        | 13.0           | 15.0           | 21.7           | 31.8           | 42.6           | 51.5           | 56.9           | 227.7          |
| Black, total .....  | 32.9        | 10.1                 | 19.9        | 16.3           | 22.1           | 32.2           | 37.2           | 40.0           | 44.0           | 34.7           | 68.9           |
| Black, non-Hispanic .....   | 33.1        | 9.3                  | 20.0        | 16.2           | 22.3           | 32.5           | 37.5           | 40.3           | 44.1           | 34.0           | 59.6           |
| Hispanic <sup>2</sup> .....   | 20.9        | 8.8                  | 13.1        | 12.9           | 13.2           | 17.2           | 21.8           | 27.7           | 32.4           | 28.9           | 72.8           |
| <b>Twin births</b>  |             |                      |             |                |                |                |                |                |                |                |                |
| All races <sup>1</sup> .....  | 28.9        | 9.2                  | 15.3        | 13.7           | 16.1           | 22.0           | 28.3           | 35.8           | 42.6           | 44.5           | 163.3          |
| White, total .....  | 28.8        | 9.1                  | 13.8        | 12.7           | 14.3           | 19.9           | 27.8           | 36.4           | 43.8           | 47.4           | 180.5          |
| White, non-Hispanic .....   | 31.5        | *                    | 14.3        | 12.9           | 14.9           | 21.2           | 29.7           | 38.5           | 46.4           | 51.6           | 204.2          |
| Black, total .....  | 32.0        | 10.1                 | 19.7        | 16.1           | 21.9           | 31.7           | 36.2           | 38.3           | 41.6           | 32.4           | 54.6           |
| Black, non-Hispanic .....   | 32.1        | 9.3                  | 19.8        | 16.0           | 22.1           | 31.9           | 36.4           | 38.6           | 41.6           | 31.7           | 52.1           |
| Hispanic <sup>2</sup> .....   | 20.1        | 8.8                  | 13.0        | 12.7           | 13.1           | 16.9           | 21.1           | 26.1           | 30.3           | 26.6           | 49.8           |
| <b>Ratio per 100,000 live births</b>                                    |             |                      |             |                |                |                |                |                |                |                |                |
| <b>Higher-order multiple births <sup>3</sup></b>                        |             |                      |             |                |                |                |                |                |                |                |                |
| All races <sup>1</sup> .....  | 184.9       | *                    | 13.9        | 14.1           | 13.8           | 41.9           | 153.3          | 327.9          | 417.5          | 428.5          | 2207.9         |
| White, total .....  | 209.2       | *                    | 12.1        | *              | 11.9           | 39.8           | 170.0          | 363.1          | 458.3          | 482.1          | 2299.2         |
| White, non-Hispanic .....   | 251.8       | *                    | 12.2        | *              | *              | 46.5           | 200.6          | 406.8          | 510.9          | 534.7          | 2355.8         |
| Black, total .....  | 93.9        | *                    | 20.6        | *              | *              | 52.3           | 105.1          | 167.2          | 245.4          | 230.0          | *              |
| Black, non-Hispanic .....   | 95.2        | *                    | 21.1        | *              | *              | 52.1           | 106.8          | 173.1          | 253.6          | 238.5          | *              |
| Hispanic <sup>2</sup> .....   | 76.3        | *                    | *           | *              | *              | 25.9           | 68.1           | 159.9          | 206.4          | 236.0          | *              |

- Quantity zero.

\* Figure does not meet standards of reliability or precision; based on fewer than 20 births in the numerator.

<sup>1</sup> Includes races other than white and black and origin not stated.<sup>2</sup> Includes all persons of Hispanic origin of any race.<sup>3</sup> Births in greater than twin deliveries.

## Technical notes

### Source of data

Data shown in this report for 1999 are based on 100 percent of the birth certificates in all States and the District of Columbia. The data are provided to the National Center for Health Statistics (NCHS) through the Vital Statistics Cooperative Program (VSCP). In 1984 and earlier years, the VSCP included varying numbers of States that provided data based on 100 percent of their birth certificates. Data for States not in the VSCP were based on a 50-percent sample of birth certificates filed in those States. Information on sampling procedures and sampling errors for 1984 and earlier years is provided in the annual report, *Vital Statistics of the United States, Volume I, Natality, Technical Appendix (4)*. Information on the percent of records with missing information for maternal and infant characteristics included in this report is shown by State in [table I](#). Data are not shown for the variables race, age, and marital status of mother. Missing data are imputed in these cases; see separate sections in the [Technical notes](#) for more information.

### Age of mother

Age of mother is computed in most cases from the mother's and infant's dates of birth as reported on the birth certificate. The mother's age is directly reported by five States (Kentucky, Nevada, North Dakota, Virginia, Wyoming), and American Samoa. From 1964 to 1996, mother's age was edited for ages 10–49 years. Births reported to occur to mothers younger than age 10 or older than age 49 years had age imputed according to the age of mother from the previous record with the same race and total birth order (total of live births and fetal deaths). Beginning in 1997, age of mother is edited for ages 10–54 years. A review and verification of unedited birth data for 1996 showed that the vast majority of births reported as occurring to women aged 50 years and over were to women aged 50–54 years. The numbers of births to women aged 50–54 years are too small for computing age-specific birth rates. These births have been included with births to women aged 45–49 years for computing birth rates.

In 1999 age of mother was not reported on 0.02 percent of the records; for these records age of mother was imputed according to the last record with the same race and total birth order.

### Race and Hispanic origin

Race and Hispanic origin are reported separately on the birth certificate. Beginning with the 1989 data year, NCHS started tabulating its birth data primarily by race of the mother. In 1988 and prior years, births were tabulated by the race of the child, which was determined from the race of the parents as entered on the birth certificate.

Trend data by race shown in this report are by race of mother for all years beginning with the 1980 data year. In order to facilitate continuity and analysis of the data, trend tables showing data for years prior to 1980 show data for both race of mother and race of child for 1980. This makes it possible to distinguish the effects of this change from real changes in the data. The text discussions of data by race are based on tabulations by race of mother. Text references to white births and white mothers or black births and black mothers are used interchangeably for ease in writing.

The factors influencing the decision to tabulate births by race of the mother have been discussed in detail elsewhere (92). They include the 1989 revision of the birth certificate, which includes many more health questions that are directly associated with the mother. In these instances, it is more appropriate to tabulate births by the mother's race. A second factor has been the increasing incidence of interracial parentage. In 1999, 5.3 percent of births were to parents of different races compared with just 2.2 percent 20 years earlier. A third factor influencing the decision to tabulate births by race of mother is the large proportion of births with race of father not stated, 14 percent in 1999. Although this proportion declined slightly in the 1990's, it is still higher than in 1979, 11 percent. The high proportion of records with the father's race not reported reflects the increase in the proportion of births to unmarried women; in many such cases, no information is reported on the father. These births are already assigned the race of the mother because there is no alternative. Tabulating all births by race of mother, therefore, provides for a more uniform approach, rather than a necessarily arbitrary combination of parental races.

Race of mother is reported by all registration areas in eight categories: white, black, American Indian, Chinese, Japanese, Hawaiian, Filipino, and "other" Asian or Pacific Islander (API). In addition, 11 States (California, Hawaii, Illinois, Minnesota, Missouri, New Jersey, New York, Texas, Virginia, Washington, and West Virginia) report data on API subgroups included in the "other" API category (Vietnamese, Asian Indian, Korean, Samoan, Guamanian, and remaining API). A report on births in 1992 to women in these API subgroups has been published (93).

In 1999 race of mother was not reported for 0.6 percent of births. In these cases, if the race of the father was known, the race of the father was assigned to the mother. When information was not available for either parent, the race of the mother was imputed according to the specific race of the mother on the preceding record with a known race of mother. This was necessary for just 0.4 percent of births in 1999.

Hispanic origin and race are reported independently on the birth certificate, as noted previously. Data for Hispanic subgroups are shown in most cases for five groups: Mexican, Puerto Rican, Cuban, Central and South American, and other (and unknown) Hispanic. In tabulations of birth data by race only, data for persons of Hispanic origin are included in the data for each race group according to the mother's reported race. In tabulations of birth data by race and Hispanic origin, data for persons of Hispanic origin are not further classified by race because the vast majority of births to Hispanic women are reported as white (97 percent in 1999). In these tabulations, data for non-Hispanic persons are classified according to the race of the mother because there are substantial differences in fertility and maternal and infant health between Hispanic and non-Hispanic white women.

Items asking for the Hispanic origin of the mother and the father have been included on the birth certificates of all States and the District of Columbia, the Virgin Islands, and Guam since 1993 (5). Puerto Rico, American Samoa, and the Northern Marianas do not collect this information. The percent of records for which Hispanic origin of the parents was not reported in 1999 is shown by State in [table I](#).

### Marital status

National estimates of births to unmarried women are based on two methods of determining marital status. For 1994 through 1996, birth certificates in 45 states and the District of Columbia included a

**Table I. Percent of birth records on which specified items were not stated: United States and each State and territory, 1999**

[By place of residence]

| Area                                  | All births | Place of birth | Attendant at birth | Mother's birth-place | Father's age | Father's race | Hispanic origin |        | Educational attainment of mother | Live-birth order | Length of gestation | Month prenatal care began | Number of prenatal visits |
|---------------------------------------|------------|----------------|--------------------|----------------------|--------------|---------------|-----------------|--------|----------------------------------|------------------|---------------------|---------------------------|---------------------------|
|                                       |            |                |                    |                      |              |               | Mother          | Father |                                  |                  |                     |                           |                           |
| Total of reporting areas <sup>1</sup> | 3,959,417  | 0.0            | 0.0                | 0.3                  | 14.0         | 14.6          | 1.2             | 14.9   | 1.6                              | 0.5              | 1.1                 | 2.9                       | 3.9                       |
| Alabama . . . . .                     | 62,122     | -              | 0.0                | 0.1                  | 22.7         | 22.8          | 0.1             | 22.7   | 0.3                              | 0.0              | 0.1                 | 0.3                       | 0.7                       |
| Alaska . . . . .                      | 9,950      | 0.0            | 0.1                | 0.4                  | 12.7         | 15.1          | 0.5             | 13.4   | 2.2                              | 0.3              | 0.2                 | 1.9                       | 1.7                       |
| Arizona . . . . .                     | 81,145     | 0.0            | 0.0                | 0.2                  | 19.7         | 21.7          | 1.3             | 21.7   | 2.4                              | 0.3              | 0.2                 | 2.5                       | 4.7                       |
| Arkansas . . . . .                    | 36,729     | 0.0            | 0.0                | 0.1                  | 19.6         | 21.8          | 0.1             | 20.9   | 1.0                              | 0.1              | 0.2                 | 2.4                       | 2.6                       |
| California . . . . .                  | 518,508    | 0.0            | 0.0                | 0.3                  | 7.2          | 6.8           | 0.6             | 6.2    | 1.5                              | 0.1              | <sup>2</sup> 5.7    | 1.6                       | 3.1                       |
| Colorado . . . . .                    | 62,167     | -              | -                  | 0.3                  | 9.0          | 9.4           | 0.1             | 9.5    | 1.0                              | 0.1              | 0.0                 | 0.7                       | 0.9                       |
| Connecticut . . . . .                 | 43,310     | 0.0            | 0.0                | 0.2                  | 10.9         | 12.3          | 5.1             | 15.6   | 3.4                              | 7.1              | 0.2                 | 3.3                       | 6.3                       |
| Delaware . . . . .                    | 10,676     | -              | 0.5                | 0.2                  | 31.6         | 32.3          | 0.1             | 31.5   | 0.5                              | 0.1              | 0.1                 | 0.8                       | 1.0                       |
| District of Columbia . . . . .        | 7,522      | -              | -                  | 0.1                  | 43.5         | 51.0          | 0.7             | 43.4   | 9.2                              | 0.1              | 0.6                 | 16.8                      | 19.7                      |
| Florida . . . . .                     | 197,023    | 0.0            | 0.0                | 0.1                  | 17.3         | 17.6          | 0.1             | 18.9   | 0.6                              | 0.0              | 0.1                 | 0.9                       | 2.0                       |
| Georgia . . . . .                     | 126,717    | 0.0            | 0.0                | 0.2                  | 17.6         | 18.1          | 1.2             | 18.4   | 2.3                              | 0.5              | 0.2                 | 3.7                       | 3.4                       |
| Hawaii . . . . .                      | 17,038     | -              | 0.0                | 0.1                  | 8.9          | 9.1           | 0.1             | 9.2    | 0.7                              | 0.0              | 3.4                 | 3.8                       | 4.4                       |
| Idaho . . . . .                       | 19,872     | -              | 0.0                | 0.2                  | 8.3          | 11.5          | 0.4             | 11.1   | 2.3                              | 0.1              | 0.2                 | 1.5                       | 2.0                       |
| Illinois . . . . .                    | 182,068    | 0.0            | 0.0                | 0.1                  | 14.4         | 15.8          | 0.1             | 15.9   | 1.0                              | 0.1              | 0.2                 | 2.1                       | 2.5                       |
| Indiana . . . . .                     | 86,031     | 0.0            | 0.1                | 0.2                  | 13.3         | 13.4          | 0.4             | 13.6   | 0.9                              | 0.2              | 0.1                 | 1.3                       | 2.6                       |
| Iowa . . . . .                        | 37,558     | 0.0            | 0.0                | 0.4                  | 11.9         | 13.7          | 1.0             | 14.6   | 1.5                              | 0.1              | 0.1                 | 1.1                       | 3.2                       |
| Kansas . . . . .                      | 38,782     | -              | 0.0                | 0.1                  | 10.5         | 10.7          | 0.9             | 11.9   | 0.3                              | 0.0              | 0.1                 | 0.6                       | 0.8                       |
| Kentucky . . . . .                    | 54,403     | -              | 0.1                | 0.0                  | 19.5         | 22.2          | 0.1             | 23.1   | 0.2                              | 0.1              | 0.1                 | 1.0                       | 1.2                       |
| Louisiana . . . . .                   | 67,136     | 0.0            | 0.0                | 0.0                  | 21.3         | 21.5          | 0.6             | 21.8   | 0.0                              | 0.0              | 0.0                 | 0.3                       | 0.6                       |
| Maine . . . . .                       | 13,616     | -              | 0.0                | -                    | 9.6          | 14.1          | 5.1             | 18.1   | 0.8                              | 0.3              | 0.1                 | 0.5                       | 0.5                       |
| Maryland . . . . .                    | 71,967     | 0.0            | 0.0                | 0.6                  | 7.7          | 9.2           | 0.4             | 6.6    | 1.9                              | 0.3              | 0.5                 | 3.8                       | 6.6                       |
| Massachusetts . . . . .               | 80,939     | -              | 0.0                | 0.0                  | 7.7          | 7.6           | 0.6             | 6.8    | 0.4                              | 0.4              | 0.4                 | 1.2                       | 0.5                       |
| Michigan . . . . .                    | 133,607    | 0.0            | 0.1                | 0.1                  | 15.4         | 17.6          | 5.9             | 22.2   | 1.7                              | 0.4              | 0.3                 | 4.1                       | 5.6                       |
| Minnesota . . . . .                   | 65,970     | -              | -                  | 0.1                  | 8.5          | 10.9          | 5.2             | 15.3   | 2.2                              | 0.4              | 0.9                 | 6.4                       | 5.7                       |
| Mississippi . . . . .                 | 42,684     | 0.0            | 0.0                | 0.1                  | 23.1         | 22.9          | 0.1             | 23.3   | 0.3                              | 0.1              | 0.2                 | 0.6                       | 1.7                       |
| Missouri . . . . .                    | 75,432     | -              | -                  | 0.2                  | 17.9         | 18.5          | 0.1             | 18.3   | 0.7                              | 0.4              | 0.1                 | 1.8                       | 2.8                       |
| Montana . . . . .                     | 10,785     | 0.0            | 0.1                | 0.0                  | 9.4          | 10.5          | 1.4             | 11.5   | 0.4                              | 0.0              | 0.1                 | 0.4                       | 0.3                       |
| Nebraska . . . . .                    | 23,907     | -              | 0.0                | 0.0                  | 11.8         | 12.8          | 2.4             | 13.9   | 0.1                              | -                | 0.0                 | 0.3                       | 0.6                       |
| Nevada . . . . .                      | 29,362     | 0.0            | 0.0                | 1.0                  | 20.8         | 21.7          | 1.4             | 20.3   | 3.5                              | 1.1              | 1.0                 | 8.4                       | 10.9                      |
| New Hampshire . . . . .               | 14,041     | -              | -                  | 0.0                  | 6.3          | 8.8           | 3.9             | 13.2   | 1.1                              | 2.4              | 0.3                 | 1.5                       | 1.6                       |
| New Jersey . . . . .                  | 114,105    | 0.0            | 0.0                | 0.2                  | 9.0          | 11.3          | 0.4             | 9.4    | 2.6                              | 0.1              | 0.1                 | 5.4                       | 6.8                       |
| New Mexico . . . . .                  | 27,191     | -              | -                  | 2.7                  | 28.6         | 28.0          | 0.0             | 28.0   | 4.5                              | 0.5              | 0.5                 | 7.3                       | 5.8                       |
| New York . . . . .                    | 255,612    | 0.1            | 0.0                | 0.4                  | 14.9         | 15.2          | 4.9             | 18.8   | 1.9                              | 0.1              | 0.4                 | 9.6                       | 6.7                       |
| North Carolina . . . . .              | 113,795    | -              | 0.0                | 0.0                  | 16.8         | 16.8          | 0.0             | 16.8   | 0.2                              | 0.1              | 0.1                 | 0.7                       | 0.7                       |
| North Dakota . . . . .                | 7,639      | 0.0            | 0.0                | -                    | 8.4          | 9.0           | 3.4             | 12.1   | 0.2                              | 0.1              | 0.1                 | 0.4                       | 0.4                       |
| Ohio . . . . .                        | 152,584    | 0.0            | 0.0                | 2.0                  | 15.1         | 17.0          | 0.4             | 12.3   | 0.7                              | 0.3              | 0.1                 | 1.2                       | 2.4                       |
| Oklahoma . . . . .                    | 49,010     | -              | 0.1                | 0.1                  | 17.8         | 19.2          | 2.0             | 19.3   | 1.8                              | 1.5              | 4.8                 | 11.2                      | 13.9                      |
| Oregon . . . . .                      | 45,204     | -              | -                  | 0.2                  | 11.3         | 5.1           | 0.8             | 6.0    | 1.8                              | 0.1              | 0.0                 | 0.4                       | 0.7                       |
| Pennsylvania . . . . .                | 145,347    | 0.0            | 0.0                | 0.9                  | 5.5          | 4.2           | 0.5             | 3.6    | 2.7                              | 0.5              | 0.3                 | 3.8                       | 6.0                       |
| Rhode Island . . . . .                | 12,366     | -              | -                  | 0.5                  | 13.6         | 14.4          | 13.8            | 24.2   | 2.9                              | 1.6              | 1.3                 | 4.9                       | 5.6                       |

See footnotes at end of table.

Table I. Percent of birth records on which specified items were not stated: United States and each State and territory, 1999—Con.

[By place of residence]

| Area  | All births | Place of birth | Attendant at birth | Mother's birth-place | Father's age | Father's race | Hispanic origin |        | Educational attainment of mother | Live-birth order | Length of gestation | Month prenatal care began | Number of prenatal visits |
|---|------------|----------------|--------------------|----------------------|--------------|---------------|-----------------|--------|----------------------------------|------------------|---------------------|---------------------------|---------------------------|
|   |            |                |                    |                      |              |               | Mother          | Father |                                  |                  |                     |                           |                           |
| South Carolina . . . . .                                | 54,948     | 0.0            | 0.0                | 0.3                  | 28.0         | 28.0          | 0.1             | 28.0   | 4.5                              | 0.1              | 0.2                 | 1.5                       | 1.7                       |
| South Dakota . . . . .                                  | 10,524     | 0.0            | —                  | 0.0                  | 12.7         | 12.8          | 0.1             | 13.1   | 0.2                              | 0.0              | 0.0                 | 0.2                       | 0.3                       |
| Tennessee . . . . .                                     | 77,803     | —              | 0.0                | 0.1                  | 15.8         | 16.0          | 0.0             | 16.1   | 0.2                              | 0.2              | 0.3                 | 1.4                       | 1.1                       |
| Texas . . . . .   | 349,245    | 0.0            | 0.0                | 0.4                  | 15.2         | 15.3          | 0.4             | 15.3   | 1.7                              | 1.3              | 0.7                 | 2.1                       | 5.8                       |
| Utah . . . . .  | 46,290     | 0.0            | 0.0                | 0.2                  | 8.7          | 9.6           | 0.2             | 9.0    | 1.0                              | 0.4              | 0.1                 | 4.9                       | 5.6                       |
| Vermont . . . . .                                       | 6,567      | —              | —                  | 0.1                  | 9.1          | 14.8          | 2.2             | 16.1   | 2.6                              | 0.5              | 0.1                 | 4.1                       | 2.0                       |
| Virginia . . . . .                                      | 95,469     | —              | 0.1                | 0.1                  | 17.8         | 19.1          | 0.2             | 17.8   | 0.7                              | 0.0              | 0.1                 | 0.3                       | 0.5                       |
| Washington . . . . .                                    | 79,586     | 0.0            | 0.2                | 0.4                  | 10.0         | 13.8          | 4.4             | 15.1   | 10.1                             | 3.7              | 2.2                 | 9.5                       | 13.8                      |
| West Virginia . . . . .                                 | 20,728     | 0.2            | 0.0                | 0.1                  | 12.6         | 13.4          | 0.2             | 13.4   | 0.8                              | 0.1              | 0.4                 | 4.5                       | 3.3                       |
| Wisconsin . . . . .                                     | 68,208     | —              | 0.0                | 0.1                  | 28.8         | 28.8          | 0.0             | 28.8   | 0.2                              | 0.0              | 0.0                 | 0.2                       | 0.3                       |
| Wyoming . . . . .                                       | 6,129      | —              | —                  | 0.0                  | 14.2         | 14.8          | 0.0             | 14.3   | 0.5                              | 0.0              | 0.0                 | 0.7                       | 1.1                       |
| Puerto Rico . . . . .                                   | 59,563     | —              | 0.1                | —                    | 3.0          | 3.8           | —               | —      | 0.4                              | 0.0              | 0.1                 | 0.4                       | 0.1                       |
| Virgin Islands . . . . .                                | 1,671      | —              | 0.1                | —                    | 24.8         | 26.5          | 4.4             | 27.5   | 2.6                              | 0.6              | 1.1                 | 0.7                       | 2.9                       |
| Guam . . . . .  | 4,021      | 0.0            | 1.0                | 0.4                  | 22.9         | 23.9          | 1.2             | 25.4   | 0.6                              | 1.0              | 0.3                 | 0.5                       | 0.9                       |
| American Samoa . . . . .                                | 1,736      | 0.1            | —                  | 36.6                 | 35.5         | 35.8          | —               | —      | —                                | —                | —                   | —                         | —                         |
| Commonwealth of the Northern Marianas Islands . . . . . | 1,381      | 0.1            | 0.2                | 0.1                  | 6.4          | 8.5           | —               | —      | 15.1                             | 14.4             | 12.5                | 15.5                      | 13.3                      |

See footnotes at end of table.

**Table I. Percent of birth records on which specified items were not stated: United States and each State and territory, 1999—Con.**

[By place of residence]

| Area                                  | All births | Birth-weight | 5-minute Apgar score | Medical risk factors | Tobacco use      | Alcohol use | Weight gain | Obstetric procedures | Complications of labor and/or delivery | Method of delivery | Abnormal conditions of newborn | Congenital anomalies |
|---------------------------------------|------------|--------------|----------------------|----------------------|------------------|-------------|-------------|----------------------|--|--------------------|--------------------------------|----------------------|
| Total of reporting areas <sup>1</sup> | 3,959,417  | 0.1          | 0.5                  | 1.6                  | 1.4              | 1.7         | 8.4         | 1.1                  | 1.3                                    | 0.8                | 2.5                            | 1.9                  |
| Alabama                               | 62,122     | 0.1          | 0.3                  | 0.0                  | 0.0              | 0.1         | 3.4         | 0.0                  | 0.0                                    | 0.3                | 0.0                            | 0.0                  |
| Alaska                                | 9,950      | 0.4          | 0.6                  | 0.7                  | 0.6              | 0.8         | 2.5         | 0.4                  | 0.6                                    | 0.5                | 0.7                            | 0.9                  |
| Arizona                               | 81,145     | 0.1          | 0.4                  | 0.0                  | 1.3              | 1.5         | 11.9        | 0.0                  | 0.0                                    | 0.3                | 0.0                            | 0.4                  |
| Arkansas                              | 36,729     | 0.1          | 3.4                  | 0.2                  | 0.4              | 0.5         | 7.5         | 0.2                  | 0.2                                    | 0.5                | 0.2                            | 0.2                  |
| California                            | 518,508    | 0.0          | ---                  | 0.0                  | ---              | ---         | ---         | 0.0                  | 0.0                                    | 0.0                | 0.0                            | 0.0                  |
| Colorado                              | 62,167     | 0.0          | 0.3                  | 0.0                  | 0.1              | 0.1         | 2.9         | —                    | —                                      | —                  | —                              | 0.1                  |
| Connecticut                           | 43,310     | 0.0          | 1.5                  | 9.8                  | 5.7              | 6.0         | 18.4        | 9.3                  | 10.2                                   | 0.9                | 15.9                           | 16.8                 |
| Delaware                              | 10,676     | 0.0          | 0.3                  | 0.0                  | 0.3              | 0.3         | 1.6         | 0.0                  | 0.0                                    | —                  | 0.1                            | 0.0                  |
| District of Columbia                  | 7,522      | 0.2          | 1.1                  | 0.0                  | 0.0              | 0.0         | 17.5        | —                    | 0.0                                    | 0.0                | 0.0                            | 0.0                  |
| Florida                               | 197,023    | 0.0          | 0.2                  | 0.0                  | 0.1              | 0.1         | 4.8         | 0.0                  | 0.0                                    | 0.6                | 0.0                            | 0.0                  |
| Georgia                               | 126,717    | 0.0          | 0.5                  | 0.3                  | 0.5              | 0.5         | 8.2         | 0.0                  | 0.0                                    | 0.4                | 0.0                            | 0.0                  |
| Hawaii                                | 17,038     | 0.9          | 1.2                  | 19.6                 | 0.1              | 0.1         | 12.5        | 11.8                 | 10.1                                   | 0.5                | 21.5                           | 23.3                 |
| Idaho                                 | 19,872     | 0.1          | 0.5                  | 0.2                  | 0.5              | 0.6         | 7.1         | 0.2                  | 0.2                                    | 0.4                | 0.5                            | 0.5                  |
| Illinois                              | 182,068    | 0.1          | 0.3                  | 0.0                  | 0.2              | 0.1         | 4.2         | 0.0                  | 0.0                                    | 0.4                | 0.0                            | 0.1                  |
| Indiana                               | 86,031     | 0.4          | 0.4                  | 0.2                  | <sup>3</sup> 0.3 | 0.3         | 2.8         | 0.1                  | 0.2                                    | 0.5                | 0.7                            | 0.7                  |
| Iowa                                  | 37,558     | 0.0          | 0.3                  | 0.1                  | 2.2              | 2.6         | 6.7         | 0.1                  | 0.1                                    | 0.5                | 0.1                            | 0.1                  |
| Kansas                                | 38,782     | 0.0          | 0.4                  | <sup>4</sup> 0.5     | 0.5              | 0.5         | 0.6         | 0.4                  | 0.4                                    | 1.2                | 0.4                            | 0.4                  |
| Kentucky                              | 54,403     | 0.1          | 0.4                  | 5.3                  | 3.8              | 4.4         | 8.5         | 4.0                  | 6.1                                    | 4.2                | 13.0                           | 11.9                 |
| Louisiana                             | 67,136     | 0.0          | 0.3                  | 0.1                  | 0.1              | 0.1         | 5.9         | 0.1                  | 0.1                                    | 0.1                | 0.1                            | 0.1                  |
| Maine                                 | 13,616     | 0.1          | 0.2                  | 0.1                  | 1.7              | 2.1         | 1.7         | 0.0                  | 0.0                                    | 0.2                | 0.1                            | 0.1                  |
| Maryland                              | 71,967     | 0.0          | 0.4                  | 0.0                  | 0.4              | 0.6         | 6.6         | 0.0                  | 0.0                                    | 0.2                | 0.0                            | 0.0                  |
| Massachusetts                         | 80,939     | 0.5          | 0.5                  | 1.0                  | 0.4              | 0.4         | 1.1         | 1.0                  | 1.0                                    | 0.7                | 1.3                            | 1.3                  |
| Michigan                              | 133,607    | 0.3          | 0.5                  | 0.1                  | 2.1              | 2.1         | 9.6         | 0.1                  | 0.1                                    | 0.5                | 0.1                            | 0.3                  |
| Minnesota                             | 65,970     | 0.1          | 0.6                  | 7.2                  | 6.6              | 6.7         | 18.2        | 5.8                  | 6.7                                    | 3.3                | 7.5                            | 7.9                  |
| Mississippi                           | 42,684     | 0.1          | 0.3                  | 0.1                  | 0.2              | 0.3         | 5.1         | 0.0                  | 0.1                                    | 0.3                | 0.1                            | 0.1                  |
| Missouri                              | 75,432     | 0.0          | 0.5                  | 0.1                  | 0.3              | 0.4         | 2.9         | 0.1                  | 0.1                                    | 0.6                | 0.1                            | 0.1                  |
| Montana                               | 10,785     | 0.0          | 0.4                  | 0.1                  | 0.9              | 1.4         | 1.7         | 0.1                  | 0.1                                    | 0.3                | 0.1                            | 0.2                  |
| Nebraska                              | 23,907     | 0.0          | 0.2                  | 0.0                  | 0.8              | 0.8         | 1.7         | 0.0                  | 0.0                                    | 0.3                | 0.1                            | 0.0                  |
| Nevada                                | 29,362     | 0.1          | 1.4                  | 9.4                  | 2.0              | 2.2         | 11.8        | 1.2                  | 6.4                                    | 0.8                | 11.2                           | 11.7                 |
| New Hampshire                         | 14,041     | 0.3          | 0.4                  | 0.1                  | 0.3              | 0.3         | 4.1         | 0.1                  | 0.1                                    | 0.3                | 0.1                            | 0.1                  |
| New Jersey                            | 114,105    | 0.1          | 0.3                  | 1.2                  | 0.6              | 0.8         | 7.2         | 0.1                  | 0.8                                    | 0.4                | 24.8                           | 1.7                  |
| New Mexico                            | 27,191     | 0.3          | 3.3                  | 0.1                  | 2.4              | 2.4         | 11.1        | 0.0                  | 0.0                                    | 0.6                | 0.2                            | ---                  |
| New York                              | 255,612    | 0.1          | 0.2                  | 1.3                  | <sup>3</sup> 0.2 | 0.2         | 9.7         | 0.2                  | 0.4                                    | 0.3                | <sup>7</sup> 0.9               | 0.9                  |
| North Carolina                        | 113,795    | 0.1          | 0.4                  | 0.0                  | 0.2              | 0.2         | 2.5         | 0.0                  | 0.0                                    | 0.4                | 0.0                            | 0.0                  |
| North Dakota                          | 7,639      | 0.1          | 0.3                  | 0.4                  | 0.7              | 1.2         | 1.6         | 0.3                  | 0.3                                    | 1.3                | 0.6                            | 0.5                  |
| Ohio                                  | 152,584    | 0.1          | 0.2                  | 0.1                  | 0.4              | 0.4         | 2.8         | 0.1                  | 0.1                                    | 0.6                | 0.1                            | 0.1                  |
| Oklahoma                              | 49,010     | 0.6          | 6.1                  | 37.9                 | 28.7             | 29.0        | 37.9        | 33.9                 | 37.0                                   | 28.9               | 40.9                           | 41.2                 |
| Oregon                                | 45,204     | 0.0          | 0.5                  | 1.0                  | 0.9              | 1.0         | 3.3         | 0.0                  | 0.0                                    | 0.3                | 0.1                            | 0.1                  |
| Pennsylvania                          | 145,347    | 0.1          | 0.4                  | 0.1                  | 0.6              | 0.7         | 9.3         | 0.0                  | 0.0                                    | 0.0                | 0.6                            | 0.5                  |
| Rhode Island                          | 12,366     | 0.5          | 0.4                  | 6.8                  | 2.8              | 2.9         | 12.3        | 6.5                  | 6.6                                    | 0.4                | 14.7                           | 14.7                 |

See footnotes at end of table.



**Table I. Percent of birth records on which specified items were not stated: United States and each State and territory, 1999—Con.**

[By place of residence]

| Area  | All births | Birth-weight | 5-minute Apgar score | Medical risk factors | Tobacco use        | Alcohol use        | Weight gain | Obstetric procedures | Complications of labor and/or delivery | Method of delivery | Abnormal conditions of newborn | Congenital anomalies |
|---|------------|--------------|----------------------|----------------------|--------------------|--------------------|-------------|----------------------|--|--------------------|--------------------------------|----------------------|
| South Carolina . . . . .                                | 54,948     | 0.0          | 0.3                  | 0.0                  | 0.2                | 0.2                | 2.6         | 0.0                  | 0.0                                    | 0.4                | 0.0                            | 0.0                  |
| South Dakota . . . . .                                  | 10,524     | 0.0          | 0.4                  | 0.1                  | ---                | ---                | 1.1         | 0.1                  | 0.0                                    | 0.1                | 0.0                            | 0.0                  |
| Tennessee . . . . .                                     | 77,803     | 0.0          | 0.3                  | 0.1                  | 0.2                | 0.2                | 5.5         | 0.1                  | 0.1                                    | 0.6                | 0.1                            | 0.1                  |
| Texas . . . . .   | 349,245    | 0.1          | ---                  | <sup>5</sup> 1.4     | 1.4                | 1.4                | 18.5        | 0.0                  | <sup>8</sup> 0.0                       | 0.9                | <sup>6</sup> 0.3               | 0.4                  |
| Utah . . . . .  | 46,290     | 0.1          | 0.4                  | 0.1                  | 0.3                | 0.4                | 3.8         | 0.0                  | 0.0                                    | 0.0                | 0.2                            | 0.2                  |
| Vermont . . . . .                                       | 6,567      | 0.3          | 0.4                  | 0.2                  | 0.4                | 0.4                | 1.4         | 0.2                  | 0.2                                    | 0.1                | 0.3                            | 0.2                  |
| Virginia . . . . .                                      | 95,469     | 0.1          | 0.3                  | 0.2                  | 0.0                | 0.0                | 2.2         | 0.0                  | 0.2                                    | 0.3                | 0.5                            | 0.3                  |
| Washington . . . . .                                    | 79,586     | 1.2          | 0.9                  | 16.3                 | 6.5                | 16.1               | 26.1        | 12.8                 | 15.5                                   | 0.5                | 20.3                           | 17.8                 |
| West Virginia . . . . .                                 | 20,728     | 0.1          | 0.3                  | 1.0                  | 1.5                | 3.2                | 8.9         | 0.2                  | 1.3                                    | 0.4                | 2.6                            | 2.5                  |
| Wisconsin . . . . .                                     | 68,208     | 0.0          | 0.4                  | 0.1                  | 0.1                | 0.1                | 1.8         | 0.1                  | 0.1                                    | 0.0                | <sup>9</sup> 0.1               | 0.1                  |
| Wyoming . . . . .                                       | 6,129      | 0.0          | 0.5                  | 0.0                  | 1.1                | 1.2                | 2.6         | 0.0                  | 0.0                                    | 0.2                | 0.0                            | 0.0                  |
| Puerto Rico . . . . .                                   | 59,563     | 0.0          | 0.1                  | 0.0                  | 0.0                | 0.0                | 0.1         | 0.0                  | 0.1                                    | 0.0                | 0.1                            | 0.1                  |
| Virgin Islands . . . . .                                | 1,671      | 0.2          | 3.3                  | 7.2                  | 1.7                | 1.8                | 7.8         | 2.0                  | 8.2                                    | 2.7                | 8.0                            | 7.4                  |
| Guam . . . . .  | 4,021      | 0.2          | 1.6                  | 2.8                  | 0.8                | 0.9                | 5.1         | 1.1                  | 3.5                                    | 0.6                | 2.9                            | 2.8                  |
| American Samoa . . . . .                                | 1,736      | —            | ---                  | ---                  | ---                | ---                | ---         | ---                  | ---                                    | ---                | ---                            | ---                  |
| Commonwealth of the Northern Marianas Islands . . . . . | 1,381      | 5.8          | 10.4                 | ---                  | <sup>10</sup> 16.0 | <sup>10</sup> 16.1 | ---         | ---                  | ---                                    | 9.8                | ---                            | ---                  |

0.0 Quantity more than zero but less than 0.05.

--- Data not available.

— Quantity zero.

<sup>1</sup>Excludes data for Puerto Rico, Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Marianas.

<sup>2</sup>California reports date last normal menses began but does not report clinical estimate of gestation.

<sup>3</sup>Indiana and New York State report tobacco use but do not report the average number of cigarettes smoked per day in standard categories; data for New York City are reported in standard categories.

<sup>4</sup>Kansas does not report Rh sensitization.

<sup>5</sup>Texas does not report genital herpes and uterine bleeding.

<sup>6</sup>Nebraska and Texas do not report birth injury.

<sup>7</sup>New York City does not report assisted ventilation less than 30 minutes and assisted ventilation of 30 minutes or more.

<sup>8</sup>Texas does not report anesthetic complications and fetal distress.

<sup>9</sup>Wisconsin does not report fetal alcohol syndrome.

<sup>10</sup>The Commonwealth of the Northern Marianas reports tobacco and alcohol use, but does not report the average number of cigarettes smoked per day or the average number of drinks per day.

question about the mother's marital status. Beginning in 1997, the marital status of women giving birth in California and Nevada is determined by a direct question in the birth registration process. Beginning June 15, 1998, Connecticut discontinued inferring the mother's marital status and added a direct question on mother's marital status to the State's birth certificate.

In the two States (Michigan and New York) that use inferential procedures to compile birth statistics by marital status in 1999, a birth is inferred as nonmarital if either of these factors, listed in priority-of-use order, is present: a paternity acknowledgment was received or the father's name is missing. In recent years, a number of States have extended their efforts to identify the fathers when the parents are not married in order to enforce child support obligations. The presence of a paternity acknowledgment therefore is the most reliable indicator that the birth is nonmarital in the States not reporting this information directly; this is now the key indicator in the nonreporting States. The inferential procedures in effect since 1980 represent a substantial departure from the method used before 1980 to prepare national estimates of births to unmarried women, which assumed that the incidence of births to unmarried women in States with no direct question on marital status was the same as the incidence in reporting States in the same geographic division (24, 94).

Because of the continued substantial increases in nonmarital childbearing throughout the 1980's and early 1990's, along with the changes in reporting procedures throughout the last two decades, the data have been intensively evaluated by the Division of Vital Statistics, NCHS. The results of this evaluation show that trends in birth rates for unmarried women computed on the basis of estimated data and on the basis of inferred data are essentially the same. Details of the changes in reporting procedures are described in previous reports (24, 94).

The mother's marital status was not reported in 1999 on 0.03 percent of the birth records in the 48 States and the District of Columbia where this information is obtained by a direct question. Marital status was imputed as "married" for these records.

### Tobacco use

Beginning in 1999, data on whether or not the mother smoked during pregnancy is available for the District of Columbia and all States except for California and South Dakota. These areas comprised 87 percent of U.S. births in 1999. Data on the number of cigarettes smoked daily were available in a comparable format for 46 States, the District of Columbia, and New York City. Indiana and New York State (except for New York City) reported information on number of cigarettes smoked in a format that was inconsistent with the NCHS standard (see [figure I](#)). The areas reporting on the number of cigarettes smoked comprised 82 percent of U.S. births in 1999.

### Prenatal care

As a result of a programming error, the proportions presented in "Report of Final Natality Statistics, 1996" and "Births: Final Data for 1997" for the Adequacy of Prenatal Care Utilization Index (APNCU) are incorrect for levels of care other than intensive use of care (19, 20, 95). Levels for the adequate care category are only slightly different from those published previously. The corrected APNCU levels for 1990 and 1995-97 are presented in this report.

## Gestation

The primary measure used to determine the gestational age of the newborn is the interval between the first day of the mother's last normal menstrual period (LMP) and the date of birth. It is subject to error for several reasons, including imperfect maternal recall or misidentification of the LMP because of postconception bleeding, delayed ovulation, or intervening early miscarriage. These data are edited for LMP-based gestational ages that are clearly inconsistent with the infant's plurality and birthweight (see below), but reporting problems for this item persist and may occur more frequently among some subpopulations and among births with shorter gestations (96, 97).

The U.S. Standard Certificate of Live Birth includes an item, "clinical estimate of gestation," that is being compared with length of gestation computed from the date the last normal menstrual period (LMP) began when the latter appears to be inconsistent with birthweight. This is done for normal weight births of apparently short gestations and very low birthweight births reported to be full term. The clinical estimate was also used if the LMP date was not reported. The period of gestation for 5.1 percent of the births in 1999 was based on the clinical estimate of gestation. For 97 percent of these records, the clinical estimate was used because the LMP date was not reported. For the remaining 3 percent, the clinical estimate was used because it was compatible with the reported birthweight, whereas the LMP-based gestation was not. In cases where the reported birthweight was inconsistent with both the LMP-computed gestation and the clinical estimate of gestation, the LMP-computed gestation was used, and birthweight was reclassified as "not stated." This was necessary for fewer than 350 births or less than 0.01 percent of all birth records in 1999. The levels of the adjustments in 1999 data were similar to those for 1998 and earlier years (21).

## Birthweight

Birthweight is reported in some areas in pounds and ounces rather than in grams. However, the metric system has been used in tabulating and presenting the statistics to facilitate comparison with data published by other groups. Equivalents of the gram weights in terms of pounds and ounces are as follows:

|                     |                         |
|---------------------|-------------------------|
| Less than 500 grams | = 1 lb, 1 oz or less    |
| 500-999 grams       | = 1 lb 2 oz-2 lb 3 oz   |
| 1,000-1,499 grams   | = 2 lb 4 oz-3 lb 4 oz   |
| 1,500-1,999 grams   | = 3 lb 5 oz-4 lb 6 oz   |
| 2,000-2,499 grams   | = 4 lb 7 oz-5 lb 8 oz   |
| 2,500-2,999 grams   | = 5 lb 9 oz-6 lb 9 oz   |
| 3,000-3,499 grams   | = 6 lb 10 oz-7 lb 11 oz |
| 3,500-3,999 grams   | = 7 lb 12 oz-8 lb 13 oz |
| 4,000-4,499 grams   | = 8 lb 14 oz-9 lb 14 oz |
| 4,500-4,999 grams   | = 9 lb 15 oz-11 lb 0 oz |
| 5,000 grams or more | = 11 lb 1 oz or more    |

## Method of delivery

Several rates are computed for method of delivery. The overall cesarean section rate or *total cesarean* rate is computed as the percent of all births that were delivered by cesarean section. The *primary cesarean* rate is a measure that relates the number of women having a first cesarean delivery to all women giving birth who

|   |   |   |
|---|---|---|
| <p><b>38a. MEDICAL RISK FACTORS FOR THIS PREGNANCY</b><br/>(Check all that apply)</p> <p>Anemia (Hct. &lt; 30/Hgb. &lt; 10) . . . . . 01 <input type="checkbox"/></p> <p>Cardiac disease . . . . . 02 <input type="checkbox"/></p> <p>Acute or chronic lung disease . . . . . 03 <input type="checkbox"/></p> <p>Diabetes . . . . . 04 <input type="checkbox"/></p> <p>Genital herpes . . . . . 05 <input type="checkbox"/></p> <p>Hydramnios/Oligohydramnios . . . . . 06 <input type="checkbox"/></p> <p>Hemoglobinopathy . . . . . 07 <input type="checkbox"/></p> <p>Hypertension, chronic . . . . . 08 <input type="checkbox"/></p> <p>Hypertension, pregnancy-associated . . . . . 09 <input type="checkbox"/></p> <p>Eclampsia . . . . . 10 <input type="checkbox"/></p> <p>Incompetent cervix . . . . . 11 <input type="checkbox"/></p> <p>Previous infant 4000+ grams . . . . . 12 <input type="checkbox"/></p> <p>Previous preterm or small-for-gestational-age infant . . . . . 13 <input type="checkbox"/></p> <p>Renal disease . . . . . 14 <input type="checkbox"/></p> <p>Rh sensitization . . . . . 15 <input type="checkbox"/></p> <p>Uterine bleeding . . . . . 16 <input type="checkbox"/></p> <p>None . . . . . 00 <input type="checkbox"/></p> <p>Other _____ 17 <input type="checkbox"/></p> <p>(Specify)</p> | <p><b>40. COMPLICATIONS OF LABOR AND/OR DELIVERY</b><br/>(Check all that apply)</p> <p>Febrile (&gt; 100°F. or 38°C.) . . . . . 01 <input type="checkbox"/></p> <p>Meconium, moderate/heavy . . . . . 02 <input type="checkbox"/></p> <p>Premature rupture of membrane (&gt; 12 hours) . . . . . 03 <input type="checkbox"/></p> <p>Abruptio placenta . . . . . 04 <input type="checkbox"/></p> <p>Placenta previa . . . . . 05 <input type="checkbox"/></p> <p>Other excessive bleeding . . . . . 06 <input type="checkbox"/></p> <p>Seizures during labor . . . . . 07 <input type="checkbox"/></p> <p>Precipitous labor (&lt; 3 hours) . . . . . 08 <input type="checkbox"/></p> <p>Prolonged labor (&gt; 20 hours) . . . . . 09 <input type="checkbox"/></p> <p>Dysfunctional labor . . . . . 10 <input type="checkbox"/></p> <p>Breech/Malpresentation . . . . . 11 <input type="checkbox"/></p> <p>Cephalopelvic disproportion . . . . . 12 <input type="checkbox"/></p> <p>Cord prolapse . . . . . 13 <input type="checkbox"/></p> <p>Anesthetic complications . . . . . 14 <input type="checkbox"/></p> <p>Fetal distress . . . . . 15 <input type="checkbox"/></p> <p>None . . . . . 00 <input type="checkbox"/></p> <p>Other _____ 16 <input type="checkbox"/></p> <p>(Specify)</p> | <p><b>43. CONGENITAL ANOMALIES OF CHILD</b><br/>(Check all that apply)</p> <p>Anencephalus . . . . . 01</p> <p>Spina bifida/Meningocele . . . . . 02</p> <p>Hydrocephalus . . . . . 03</p> <p>Microcephalus . . . . . 04</p> <p>Other central nervous system anomalies (Specify) _____ 05</p> <p>Heart malformations . . . . . 06</p> <p>Other circulatory/respiratory anomalies (Specify) _____ 07</p> <p>Rectal atresia/stenosis . . . . . 08</p> <p>Tracheo-esophageal fistula/ Esophageal atresia . . . . . 09</p> <p>Omphalocele/ Gastroschisis . . . . . 10</p> <p>Other gastrointestinal anomalies (Specify) _____ 11</p> <p>Malformed genitalia . . . . . 12</p> <p>Renal agenesis . . . . . 13</p> <p>Other urogenital anomalies (Specify) _____ 14</p> <p>Cleft lip/palate . . . . . 15</p> <p>Polydactyly/Syndactyly/Adactyly . . . . . 16</p> <p>Club foot . . . . . 17</p> <p>Diaphragmatic hernia . . . . . 18</p> <p>Other musculoskeletal/integumental anomalies (Specify) _____ 19</p> <p>Down's syndrome . . . . . 20</p> <p>Other chromosomal anomalies (Specify) _____ 21</p> <p>None . . . . . 00</p> <p>Other _____ 22</p> <p>(Specify)</p> |
| <p><b>38b. OTHER RISK FACTORS FOR THIS PREGNANCY</b><br/>(Complete all items)</p> <p>Tobacco use during pregnancy . . . . . Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Average number cigarettes per day _____</p> <p>Alcohol use during pregnancy . . . . . Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Average number drinks per week _____</p> <p>Weight gained during pregnancy _____ lbs.</p>   | <p><b>41. METHOD OF DELIVERY</b> (Check all that apply)</p> <p>Vaginal . . . . . 01 <input type="checkbox"/></p> <p>Vaginal birth after previous C-section . . . . . 02 <input type="checkbox"/></p> <p>Primary C-section . . . . . 03 <input type="checkbox"/></p> <p>Repeat C-section . . . . . 04 <input type="checkbox"/></p> <p>Forceps . . . . . 05 <input type="checkbox"/></p> <p>Vacuum . . . . . 06 <input type="checkbox"/></p>  | <p><b>42. ABNORMAL CONDITIONS OF THE NEWBORN</b><br/>(Check all that apply)</p> <p>Anemia (Hct. &lt; 39/Hgb. &lt; 13) . . . . . 01 <input type="checkbox"/></p> <p>Birth injury . . . . . 02 <input type="checkbox"/></p> <p>Fetal alcohol syndrome . . . . . 03 <input type="checkbox"/></p> <p>Hyaline membrane disease/RDS . . . . . 04 <input type="checkbox"/></p> <p>Meconium aspiration syndrome . . . . . 05 <input type="checkbox"/></p> <p>Assisted ventilation &lt; 30 min . . . . . 06 <input type="checkbox"/></p> <p>Assisted ventilation ≥ 30 min . . . . . 07 <input type="checkbox"/></p> <p>Seizures . . . . . 08 <input type="checkbox"/></p> <p>None . . . . . 00 <input type="checkbox"/></p> <p>Other _____ 09 <input type="checkbox"/></p> <p>(Specify)</p>  |
| <p><b>39. OBSTETRIC PROCEDURES</b><br/>(Check all that apply)</p> <p>Amniocentesis . . . . . 01 <input type="checkbox"/></p> <p>Electronic fetal monitoring . . . . . 02 <input type="checkbox"/></p> <p>Induction of labor . . . . . 03 <input type="checkbox"/></p> <p>Stimulation of labor . . . . . 04 <input type="checkbox"/></p> <p>Tocolysis . . . . . 05 <input type="checkbox"/></p> <p>Ultrasound . . . . . 06 <input type="checkbox"/></p> <p>None . . . . . 00 <input type="checkbox"/></p> <p>Other _____ 07 <input type="checkbox"/></p> <p>(Specify)</p>  |   |   |

Figure I. Selected maternal and infant health items from the 1989 revision of the U.S. Standard Certificate of Live Birth

have never had a cesarean delivery. The denominator for this rate includes all births less those with method of delivery classified as repeat cesarean, vaginal birth after previous cesarean, or method not stated. The rate for *vaginal birth after previous cesarean* (VBAC) delivery is computed by relating all VBAC deliveries to the sum of VBAC and repeat cesarean deliveries, that is, to women with a previous cesarean section. The proportion of cesarean deliveries among births in Hawaii in 1999 is believed to be substantially understated because of incomplete reporting of method of delivery in some hospitals.

**Computations of percents, percent distributions, medians, and means**

Births for which a particular characteristic is unknown were subtracted from the figures for total births that were used as denominators before percents, percent distributions, and medians were computed. The percent of records with missing information for each item is shown by State in [table I](#). The median number of prenatal visits also excludes births to mothers who had no prenatal care. Computations of the median years of school completed and the median number of prenatal visits were based on ungrouped data. The median age of mother is computed from birth rates in 5-year age groups, which eliminates the effects of changes in the age composition of the childbearing population over time. The mean age of father is computed from frequencies of births where age of father not stated

is distributed in the same proportions as births with known age for each 5 year age classification of mother. An asterisk is shown in place of any derived statistic based on fewer than 20 births in the numerator or denominator.

**Population denominators**

Birth and fertility rates for 1999 shown in [tables 1, 3–6, 8, 9, 13, and 14](#) are based on populations estimated as of July 1, 1999. These populations are shown in [tables II and III](#). The population estimates have been published by the U.S. Census Bureau (6) and are based on the 1990 census counts by race and age, which were modified to be consistent with Office of Management and Budget racial categories and historical categories for birth data, and in the case of age, to reflect age as of the census reference date. The modification procedures are described in detail in a census report (98).

Birth and fertility rates by State shown in [table 10](#) are based on State-level population estimates provided by the U.S. Census Bureau that are consistent with the U.S. populations (99). Rates by State shown in this report may differ from rates computed on the basis of other population estimates. Birth and fertility rates by month shown in [table 15](#) are based on monthly population estimates also based on the 1999 estimates. Rates for unmarried women shown in [tables 17 and 18](#) are based on distributions of the population by marital status as of March 1999 provided by the U.S. Census Bureau (23), which have been

**Table II. Estimated total population by race, and estimated female population by age and race: United States, 1999**

[Populations estimated as of July 1]

| Age                        | All races   | White       | Black      | American Indian | Asian or Pacific Islander |
|----------------------------|-------------|-------------|------------|-----------------|---------------------------|
| Total population . . . . . | 272,690,813 | 224,610,797 | 34,862,169 | 2,397,426       | 10,820,421                |
| Female population          |             |             |            |                 |                           |
| 15-44 years . . . . .      | 60,107,320  | 48,137,939  | 8,638,842  | 576,624         | 2,753,915                 |
| 10-14 years . . . . .      | 9,536,777   | 7,495,621   | 1,518,163  | 122,247         | 400,746                   |
| 15-19 years . . . . .      | 9,596,926   | 7,578,366   | 1,495,511  | 116,732         | 406,317                   |
| 15-17 years . . . . .      | 5,703,781   | 4,500,884   | 882,758    | 72,134          | 248,005                   |
| 18-19 years . . . . .      | 3,893,145   | 3,077,482   | 612,753    | 44,598          | 158,312                   |
| 20-24 years . . . . .      | 8,842,537   | 6,995,196   | 1,363,289  | 96,464          | 387,588                   |
| 25-29 years . . . . .      | 9,153,808   | 7,215,552   | 1,362,369  | 94,172          | 481,715                   |
| 30-34 years . . . . .      | 9,955,716   | 7,942,520   | 1,419,010  | 88,606          | 505,580                   |
| 35-39 years . . . . .      | 11,328,875  | 9,201,352   | 1,536,944  | 92,576          | 498,003                   |
| 40-44 years . . . . .      | 11,229,458  | 9,204,953   | 1,461,719  | 88,074          | 474,712                   |
| 45-49 years . . . . .      | 9,855,557   | 8,158,465   | 1,213,898  | 73,738          | 409,456                   |

SOURCE: U.S. Census Bureau. U.S. population estimates by age, sex, race, and Hispanic origin: 1980 to 1999. Washington, DC: U.S. Census Bureau. Internet release, April 11, 2000. [http://www.census.gov/population/www/estimates/nat\\_90s\\_1.html](http://www.census.gov/population/www/estimates/nat_90s_1.html)

**Table III. Estimated total population by specified Hispanic origin and estimated female population by age and specified Hispanic origin and by race for women of non-Hispanic origin: United States, 1999**

[Populations estimated as of July 1]

| Age                        | Hispanic   |            |              |           |                             | Non-Hispanic       |             |            |
|----------------------------|------------|------------|--------------|-----------|-----------------------------|--------------------|-------------|------------|
|                            | Total      | Mexican    | Puerto Rican | Cuban     | Other Hispanic <sup>1</sup> | Total <sup>2</sup> | White       | Black      |
| Total population . . . . . | 31,337,161 | 20,488,782 | 2,945,172    | 1,344,410 | 6,558,797                   | 241,353,656        | 196,049,405 | 33,092,411 |
| Female population          |            |            |              |           |                             |                    |             |            |
| 15-44 years . . . . .      | 7,491,138  | 4,843,368  | 735,357      | 255,399   | 1,657,014                   | 52,616,183         | 41,327,758  | 8,209,248  |
| 10-14 years . . . . .      | 1,339,244  | 897,933    | 139,303      | 34,282    | 267,726                     | 8,197,533          | 6,284,953   | 1,439,907  |
| 15-19 years . . . . .      | 1,335,286  | 908,706    | 148,558      | 36,152    | 241,870                     | 8,261,640          | 6,364,388   | 1,421,531  |
| 15-17 years . . . . .      | 786,999    | 550,024    | 86,988       | 22,588    | 127,399                     | 4,916,784          | 3,786,782   | 838,952    |
| 18-19 years . . . . .      | 548,287    | 358,682    | 61,570       | 13,564    | 114,471                     | 3,344,856          | 2,577,606   | 582,579    |
| 20-24 years . . . . .      | 1,295,002  | 875,033    | 110,189      | 33,722    | 276,058                     | 7,547,530          | 5,811,775   | 1,293,089  |
| 25-29 years . . . . .      | 1,250,837  | 860,673    | 106,482      | 39,415    | 244,267                     | 7,902,976          | 6,076,568   | 1,293,184  |
| 30-34 years . . . . .      | 1,284,875  | 804,502    | 133,857      | 49,786    | 296,730                     | 8,670,838          | 6,776,864   | 1,342,837  |
| 35-39 years . . . . .      | 1,255,045  | 736,515    | 132,791      | 51,231    | 334,508                     | 10,073,832         | 8,062,785   | 1,461,473  |
| 40-44 years . . . . .      | 1,070,093  | 657,939    | 103,480      | 45,093    | 263,581                     | 10,159,367         | 8,235,378   | 1,397,134  |
| 45-49 years . . . . .      | 838,951    | 486,298    | 87,892       | 44,731    | 220,030                     | 9,016,608          | 7,397,436   | 1,163,815  |

<sup>1</sup>Includes Central and South American and other and unknown Hispanic.

<sup>2</sup>Includes races other than white and black.

SOURCE: Population estimates based on unpublished tabulations prepared by the Housing and Household Economic Statistics Division, U.S. Census Bureau. Totals for Hispanic population and non-Hispanic population by race are consistent with figures published in: U.S. Census Bureau. U.S. population estimates by age, sex, race, and Hispanic origin: 1980 to 1999. Washington, DC: U.S. Census Bureau. Internet release, April 11, 2000. [http://www.census.gov/population/www/estimates/nat\\_90s\\_1.html](http://www.census.gov/population/www/estimates/nat_90s_1.html)

adjusted to July 1999 population levels (6) by the Division of Vital Statistics, NCHS (24, 94).

Birth and fertility rates for the Hispanic population, shown in [tables 6, 8, 9, and 14](#), are based on estimates of the total Hispanic population as of July 1, 1999 (6). Rates for Hispanic subgroups are based on special population estimates that are presented in [table III](#) in the [Technical notes](#) (100). More information about the populations for Hispanic subgroups is presented elsewhere (4).

### Computation of rates

In computing birth rates by live-birth order, births with birth order not stated were distributed in the same proportion as births of known live-birth order. This procedure is done separately by race.

In computing birth and fertility rates for the Hispanic population, births with origin of mother not stated are included with non-Hispanic births rather than being distributed. Thus, rates for the U.S. Hispanic population are underestimates of the true rates to the extent that the births with origin of mother not stated (1.2 percent) were actually to Hispanic mothers (see [table I](#)). In computing the rates, the census-based populations with origin not stated are imputed. The effect on the rates is believed to be small.

*Age of father*—Information on age of father is often missing on birth certificates of children born to unmarried women ([table I](#)). In computing birth rates by age of father, births where age of father is not stated are distributed in the same proportions as births with known age within each 5-year age classification of mother. This procedure is followed because, while father's age is missing on 14 percent of the

birth certificates, nearly one third of these were on records where the mother is a teenager. This distribution procedure is done separately by race. The resulting distributions are summed to form a composite frequency distribution that is the basis for computing birth rates by age of father. This procedure avoids the distortion in rates that would result if the relationship between age of mother and age of father were disregarded.

### Graphic presentation

Trend data shown in figures 2–4, 6, 7, and 9 are plotted using a logarithmic scale. This approach is taken to facilitate comparison of the relative change in rates over time for each series of rates as well as the differentials among rates for different series. The trend lines in figure 2, for example, show that women 40–44 years of age experienced the most change of any group over the period, and also that they had the greatest increase in rates since 1985.

### Random variation and significance testing for natality data

The number of births reported for an area is essentially a complete count, because more than 99 percent of all births are registered. Although this number is not subject to sampling error, it may be affected by nonsampling errors such as mistakes in recording the mother's residence or age during the registration process.

When the number of births is used for analytic purposes the number of events that *actually* occurred can be thought of as one in a large series of possible results that *could have* occurred under the same circumstances. When considered in this way, the number of births is subject to random variation. The probable range of values may be estimated from the actual figures according to certain statistical assumptions.

The **confidence interval** is the range of values for the number of births, birth rates, or percent of births that you could expect in 95 out of 100 cases. The **confidence limits** are the end points of this range of values (the highest and lowest values). Confidence limits tell you how much the number of events or rates could vary under similar circumstances.

Confidence limits for numbers, rates, and percents can be estimated from the actual number of events. Procedures differ for rates and percents and also differ depending on the number of births on which these statistics are based. Below are detailed procedures and examples for each type of case.

#### 95-percent confidence limits for numbers less than 100

When the number of births is less than 100 and the rate is small, the data are assumed to follow a Poisson probability distribution. Confidence limits are estimated using the following formulas:

$$\text{Lower limit} = B \times L$$

$$\text{Upper limit} = B \times U$$

where

$$B = \text{number of births}$$

$L$  = value in table IV that corresponds to the number  $B$

$U$  = value in table IV that corresponds to the number  $B$

#### Example

Suppose that the number of first births to American Indian women 40–44 years of age was 47. The confidence limits for this number would be:

$$\begin{aligned} \text{Lower limit} &= B \times L \\ &= 47 \times 0.73476 \\ &= 35 \end{aligned}$$

$$\begin{aligned} \text{Upper limit} &= B \times U \\ &= 47 \times 1.32979 \\ &= 63 \end{aligned}$$

This means that the chances are 95 out of 100 that the actual number of first births to American Indian women 40–44 years of age would lie between 35 and 63.

#### 95-percent confidence limits for numbers of 100 or more

When the number of events is greater than 100, the data are assumed to be approximately normally distributed. Formulas for 95-percent confidence limits are:

$$\text{Lower limit} = B - (1.96 \times \sqrt{B})$$

$$\text{Upper limit} = B + (1.96 \times \sqrt{B})$$

where

$$B = \text{number of births}$$

#### Example

Suppose that the number of first births to white women 40–44 years of age was 14,108. The 95-percent confidence limits for this number would be:

$$\begin{aligned} \text{Lower limit} &= 14,108 - (1.96 \times \sqrt{14,108}) \\ &= 14,108 - 233 \\ &= 13,875 \end{aligned}$$

$$\begin{aligned} \text{Upper limit} &= 14,108 + (1.96 \times \sqrt{14,108}) \\ &= 14,108 + 233 \\ &= 14,341 \end{aligned}$$

This means that the chances are 95 out of 100 that the actual number of first births to white women 40–44 years of age would lie between 13,875 and 14,341.

### Computing confidence intervals for rates

The same statistical assumptions can be used to estimate the variability in birth rates. Again, one formula is used for rates based on numbers of events less than 100, and another formula for rates based on numbers of 100 or greater. For our purposes, assume that the denominators of these rates (the population estimates) have no

**Table IV. Values of *L* and *U* for calculating 95-percent confidence limits for numbers of events and rates when the number of events is less than 100**

| <i>N</i> | <i>L</i> | <i>U</i> | <i>N</i> | <i>L</i> | <i>U</i> |
|----------|----------|----------|----------|----------|----------|
| 1        | 0.02532  | 5.57164  | 51       | 0.74457  | 1.31482  |
| 2        | 0.12110  | 3.61234  | 52       | 0.74685  | 1.31137  |
| 3        | 0.20622  | 2.92242  | 53       | 0.74907  | 1.30802  |
| 4        | 0.27247  | 2.56040  | 54       | 0.75123  | 1.30478  |
| 5        | 0.32470  | 2.33367  | 55       | 0.75334  | 1.30164  |
| 6        | 0.36698  | 2.17658  | 56       | 0.75539  | 1.29858  |
| 7        | 0.40205  | 2.06038  | 57       | 0.75739  | 1.29562  |
| 8        | 0.43173  | 1.97040  | 58       | 0.75934  | 1.29273  |
| 9        | 0.45726  | 1.89831  | 59       | 0.76125  | 1.28993  |
| 10       | 0.47954  | 1.83904  | 60       | 0.76311  | 1.28720  |
| 11       | 0.49920  | 1.78928  | 61       | 0.76492  | 1.28454  |
| 12       | 0.51671  | 1.74680  | 62       | 0.76669  | 1.28195  |
| 13       | 0.53246  | 1.71003  | 63       | 0.76843  | 1.27943  |
| 14       | 0.54671  | 1.67783  | 64       | 0.77012  | 1.27698  |
| 15       | 0.55969  | 1.64935  | 65       | 0.77178  | 1.27458  |
| 16       | 0.57159  | 1.62394  | 66       | 0.77340  | 1.27225  |
| 17       | 0.58254  | 1.60110  | 67       | 0.77499  | 1.26996  |
| 18       | 0.59266  | 1.58043  | 68       | 0.77654  | 1.26774  |
| 19       | 0.60207  | 1.56162  | 69       | 0.77806  | 1.26556  |
| 20       | 0.61083  | 1.54442  | 70       | 0.77955  | 1.26344  |
| 21       | 0.61902  | 1.52861  | 71       | 0.78101  | 1.26136  |
| 22       | 0.62669  | 1.51401  | 72       | 0.78244  | 1.25933  |
| 23       | 0.63391  | 1.50049  | 73       | 0.78384  | 1.25735  |
| 24       | 0.64072  | 1.48792  | 74       | 0.78522  | 1.25541  |
| 25       | 0.64715  | 1.47620  | 75       | 0.78656  | 1.25351  |
| 26       | 0.65323  | 1.46523  | 76       | 0.78789  | 1.25165  |
| 27       | 0.65901  | 1.45495  | 77       | 0.78918  | 1.24983  |
| 28       | 0.66449  | 1.44528  | 78       | 0.79046  | 1.24805  |
| 29       | 0.66972  | 1.43617  | 79       | 0.79171  | 1.24630  |
| 30       | 0.67470  | 1.42756  | 80       | 0.79294  | 1.24459  |
| 31       | 0.67945  | 1.41942  | 81       | 0.79414  | 1.24291  |
| 32       | 0.68400  | 1.41170  | 82       | 0.79533  | 1.24126  |
| 33       | 0.68835  | 1.40437  | 83       | 0.79649  | 1.23965  |
| 34       | 0.69253  | 1.39740  | 84       | 0.79764  | 1.23807  |
| 35       | 0.69654  | 1.39076  | 85       | 0.79876  | 1.23652  |
| 36       | 0.70039  | 1.38442  | 86       | 0.79987  | 1.23499  |
| 37       | 0.70409  | 1.37837  | 87       | 0.80096  | 1.23350  |
| 38       | 0.70766  | 1.37258  | 88       | 0.80203  | 1.23203  |
| 39       | 0.71110  | 1.36703  | 89       | 0.80308  | 1.23059  |
| 40       | 0.71441  | 1.36172  | 90       | 0.80412  | 1.22917  |
| 41       | 0.71762  | 1.35661  | 91       | 0.80514  | 1.22778  |
| 42       | 0.72071  | 1.35171  | 92       | 0.80614  | 1.22641  |
| 43       | 0.72370  | 1.34699  | 93       | 0.80713  | 1.22507  |
| 44       | 0.72660  | 1.34245  | 94       | 0.80810  | 1.22375  |
| 45       | 0.72941  | 1.33808  | 95       | 0.80906  | 1.22245  |
| 46       | 0.73213  | 1.33386  | 96       | 0.81000  | 1.22117  |
| 47       | 0.73476  | 1.32979  | 97       | 0.81093  | 1.21992  |
| 48       | 0.73732  | 1.32585  | 98       | 0.81185  | 1.21868  |
| 49       | 0.73981  | 1.32205  | 99       | 0.81275  | 1.21746  |
| 50       | 0.74222  | 1.31838  |          |          |          |

error. While this assumption is technically correct *only* for denominators based on the census that occurs every 10 years, the error in intercensal population estimates is usually small, difficult to measure, and therefore not considered.

#### 95-percent confidence limits for rates based on less than 100 events

When the number of events in the numerator is less than 20, an asterisk is shown in place of the rate because there were too few births to compute a statistically reliable rate. When the number of events in the numerator is greater than 20 but less than 100, the confidence interval for a rate can be estimated using the two formulas that follow and the values in [table IV](#).

$$\text{Lower limit} = R \times L$$

$$\text{Upper limit} = R \times U$$

where

*R* = birth rate

*L* = value in [table IV](#) that corresponds to the number *B* in the numerator of the rate

*U* = value in [table IV](#) that corresponds to the number *B* in the numerator of the rate

#### Example

Suppose that the first birth rate for American Indian women 40–44 years of age was 0.54 per 1,000, based on 47 births in the numerator. Using [table IV](#):

$$\text{Lower limit} = 0.54 \times 0.73476 = .40$$

$$\text{Upper limit} = 0.54 \times 1.32979 = .72$$

This means that the chances are 95 out of 100 that the actual first birth rate for American Indian women 40–44 years of age lies between .40 and .72.

**95-percent confidence limits for rates when the numerator is 100 or more**

In this case, use the following formula for the birth rate *R* based on the number of births *B*:

$$\text{Lower limit} = R - [1.96 \times (R / \sqrt{B})]$$

$$\text{Upper limit} = R + [1.96 \times (R / \sqrt{B})]$$

where

- R* = the birth rate
- B* = the number of births

**Example**

Suppose that the first birth rate for white women 40–44 years of age was 1.55 per 1,000, based on 14,108 births in the numerator. Therefore, the 95-percent confidence interval would be:

$$\begin{aligned} \text{Lower limit} &= 1.55 - [1.96 \times (1.55 / \sqrt{14,108})] \\ &= 1.55 - .026 \\ &= 1.52 \end{aligned}$$

$$\begin{aligned} \text{Upper limit} &= 1.55 + [1.96 \times (1.55 / \sqrt{14,108})] \\ &= 1.55 + .026 \\ &= 1.58 \end{aligned}$$

This means that the chances are 95 out of 100 that the actual first birth rate for white women 40–44 years of age lies between 1.52 and 1.58.

**Computing 95-percent confidence intervals for percents**

In many instances we need to compute the confidence intervals for percents. Percents derive from a binomial distribution. As with birth rates, an asterisk will be shown for any percent that is based on fewer than 20 births in the numerator. We easily compute a 95-percent confidence interval for a percent when the following conditions are met:

$$B \times p \geq 5 \text{ and } B \times q \geq 5$$

where

- B* = number of births in the denominator
- p* = percent divided by 100
- q* = 1 – *p*

For natality data, these conditions will be met except for very rare events in small subgroups. If the conditions are *not* met, the variation in the percent will be so large as to render the confidence intervals meaningless. When these conditions are met the 95-percent confidence interval can be computed using the normal approximation of the binomial. The 95-percent confidence intervals are computed by the following formulas:

$$\text{Lower limit} = p - [1.96 \times (\sqrt{p \times q / B})]$$

$$\text{Upper limit} = p + [1.96 \times (\sqrt{p \times q / B})]$$

where

- p* = percent divided by 100
- q* = 1 – *p*
- B* = number of births in the denominator

**Example**

Suppose that the percent of births to Hispanic women in Alabama that were to unmarried women was 23.0 percent. This was based on 310 births in the numerator and 1,345 births in the denominator. First we test to make sure we can use the normal approximation of the binomial:

$$\begin{aligned} 1,345 \times .230 &= 309 \\ 1,345 \times (1 - .230) &= 1,345 \times .770 = 1,036 \end{aligned}$$

Both 309 and 1,036 are greater than 5 so we can proceed. The 95-percent confidence interval would be:

$$\begin{aligned} \text{Lower limit} &= .23 - \left( 1.96 \sqrt{\frac{.23(.77)}{1,345}} \right) \\ &= .23 - .022 \\ &= .208, \text{ or } 20.8 \text{ percent} \end{aligned}$$

$$\begin{aligned} \text{Upper limit} &= .23 + \left( 1.96 \sqrt{\frac{.23(.77)}{1,345}} \right) \\ &= .23 + .022 \\ &= .252, \text{ or } 25.2 \text{ percent} \end{aligned}$$

This means that the chances are 95 out of 100 that the actual percent of births in Alabama to Hispanic women that are to unmarried women lies between 20.8 and 25.2 percent.

**Significance testing**

**One of the rates is based on fewer than 100 cases**

To compare two rates is when one or both of those rates are based on less than 100 cases, you first compute the confidence intervals for both rates. Then you check to see if those intervals overlap. If they **do** overlap, the difference is not statistically significant at the 95-percent level. If they **do not** overlap, the difference is indeed “statistically significant.”

**Example**

Is the first birth rate for American Indian women 40–44 years of age (.54 per 1,000) significantly lower than the comparable rate for white women (1.55)? The rate for American Indian women is based on 47 events whereas the rate for white women is based on 14,108 events. The rate for American Indian women is based on less than 100 events; therefore, the first step is to compute the confidence intervals for both rates.

|                                 | Lower Limit | Upper Limit |
|---------------------------------|-------------|-------------|
| American Indian women . . . . . | 0.40        | 0.72        |
| White women . . . . .           | 1.52        | 1.58        |

These two confidence intervals do not overlap. Therefore, the first birth rate for American Indian women aged 40–44 years is significantly lower (at the 95-percent confidence level) than the comparable rate for white women.

### Both rates are based on 100 or more events

When both rates are based on 100 or more events, the difference between the two rates is considered statistically significant if it exceeds the statistic in the formula below. This statistic equals 1.96 times the standard error for the difference between two rates.

$$1.96 \sqrt{\frac{R_1^2}{N_1} + \frac{R_2^2}{N_2}}$$

where

$R_1$  = first rate

$R_2$  = second rate

$N_1$  = first number of births

$N_2$  = second number of births

If the difference is **greater** than this statistic, then the difference would occur by chance less than 5 times out of 100. If the difference is **less** than this statistic, the difference might occur by chance more than 5 times out of 100. We say that the difference is not statistically significant at the 95-percent confidence level.

### Example

Is the first birth rate for black women 40–44 years of age (1.08 per 1,000) significantly lower than the comparable rate for white women (1.55)? Both rates are based on more than 100 births (1,535 for black women and 14,108 for white women). The difference between the rates is  $1.55 - 1.08 = .47$ . The statistic is then calculated as follows:

$$\begin{aligned} & 1.96 \sqrt{\frac{1.08^2}{1,535} + \frac{1.55^2}{14,108}} \\ &= 1.96 \times \sqrt{([1.166/1,535] + [2.403/14,108])} \\ &= 1.96 \times \sqrt{0.00076 + 0.00017} \\ &= 1.96 \times \sqrt{0.00093} \\ &= 1.96 \times .03 \\ &= .06 \end{aligned}$$

The difference between the rates (.47) is greater than this statistic (.06). Therefore, the difference is statistically significant at the 95-percent confidence level.

### Testing differences between two percents

When testing the difference between two percents, both percents must meet the following conditions:

$$B \times p \geq 5 \text{ and } B \times q \geq 5$$

where

$B$  = number of births in the denominator

$p$  = percent divided by 100

$q = 1 - p$

When both percents meet these conditions then the difference between the two percents is considered statistically significant if it exceeds the statistic in the formula below. This statistic equals 1.96 times the standard error for the difference between two percents.

$$1.96 \sqrt{p(1-p) \left( \frac{1}{B_1} + \frac{1}{B_2} \right)}$$

where

$B_1$  = number of births in the denominator for the first percent

$B_2$  = number of births in the denominator for the second percent

$$p = \frac{B_1 p_1 + B_2 p_2}{B_1 + B_2}$$

$p_1$  = first percent

$p_2$  = second percent

### Example

Is the percent of births to Hispanic women that were to unmarried women higher in Alaska (28.8 percent) than in Alabama (23.0). The number in the denominator was 593 in Alaska and 1,345 in Alabama. The necessary conditions are met for both percents (calculations not shown). The difference between the two percents is  $.288 - .230 = .058$ . The statistic is then calculated as follows:

$$\begin{aligned} & 1.96 \sqrt{.248(.752) (.00243)} = 1.96 \times \sqrt{.00045} \\ &= 1.96 \times .021 \\ &= .042 \end{aligned}$$

The difference between the percents (.058) is greater than this statistic (.042). Therefore, the difference is statistically significant at the 95-percent confidence level.

Information on computing confidence intervals for and testing differences between rates for Hispanic subgroups is available elsewhere (4).

### Definitions of medical terms

The 1989 revision of the U.S. Standard Certificate of Live Birth includes several maternal and infant health items in checkbox format, including obstetric procedures, medical risk factors, complications of labor and/or delivery, abnormal conditions of the newborn, and congenital anomalies of the child (figure 1). The definitions that follow are adapted and abbreviated from a set of definitions compiled by a committee of Federal and State health statistics officials for the National Association of Public Health Statistics and Information Systems, formerly known as the Association for Vital Records and Health Statistics (101).

### Medical risk factors for this pregnancy

*Anemia*—Hemoglobin level of less than 10.0 g/dL during pregnancy or a hematocrit of less than 30 percent during pregnancy.

*Cardiac disease*—Disease of the heart.



*Acute or chronic lung disease*—Disease of the lungs during pregnancy.

*Diabetes*—Metabolic disorder characterized by excessive discharge of urine and persistent thirst; includes juvenile onset, adult onset, and gestational diabetes during pregnancy.

*Genital herpes*—Infection of the skin of the genital area by herpes simplex virus.

*Hydramnios/oligohydramnios*—Any noticeable excess (hydramnios) or lack (oligohydramnios) of amniotic fluid.

*Hemoglobinopathy*—A blood disorder caused by alteration in the genetically determined molecular structure of hemoglobin (example: sickle cell anemia).

*Hypertension, chronic*—Blood pressure persistently greater than 140/90, diagnosed prior to onset of pregnancy or before the 20th week of gestation.

*Hypertension, pregnancy-associated*—An increase in blood pressure of at least 30 mm Hg systolic or 15 mm Hg diastolic on two measurements taken 6 hours apart after the 20th week of gestation.

*Eclampsia*—The occurrence of convulsions and/or coma unrelated to other cerebral conditions in women with signs and symptoms of pre-eclampsia.

*Incompetent cervix*—Characterized by painless dilation of the cervix in the second trimester or early in the third trimester of pregnancy, with premature expulsion of membranes through the cervix and ballooning of the membranes into the vagina, followed by rupture of the membranes and subsequent expulsion of the fetus.

*Previous infant 4,000+ grams*—The birth weight of a previous live-born child was over 4,000+ grams (8 pounds 14 ounces).

*Previous preterm or small-for-gestational-age infant*—Previous birth of an infant prior to term (before 37 completed weeks of gestation) or of an infant weighing less than the tenth percentile for gestational age using a standard weight for age chart.

*Renal disease*—Kidney disease.

*Rh sensitization*—The process or state of becoming sensitized to the Rh factor as when an Rh-negative woman is pregnant with an Rh-positive fetus.

*Uterine bleeding*—Any clinically significant bleeding during the pregnancy taking into consideration the stage of pregnancy; any second or third trimester bleeding of the uterus prior to the onset of labor.

## Obstetric procedures

*Amniocentesis*—Surgical transabdominal perforation of the uterus to obtain amniotic fluid to be used in the detection of genetic disorders, fetal abnormalities, and fetal lung maturity.

*Electronic fetal monitoring*—Monitoring with external devices applied to the maternal abdomen or with internal devices with an electrode attached to the fetal scalp and a catheter through the cervix into the uterus, to detect and record fetal heart tones and uterine contractions.

*Induction of labor*—The initiation of uterine contractions before the spontaneous onset of labor by medical and/or surgical means for the purpose of delivery.

*Stimulation of labor*—Augmentation of previously established labor by use of oxytocin.

*Tocolysis*—Use of medications to inhibit preterm uterine contractions to extend the length of pregnancy and, therefore, avoid a preterm birth.

*Ultrasound*—Visualization of the fetus and the placenta by means of sound waves.

## Complications of labor and/or delivery

*Febrile*—A fever greater than 100° F. or 38° C. occurring during labor and/or delivery.

*Meconium, moderate/heavy*—Meconium consists of undigested debris from swallowed amniotic fluid, various products of secretion, excretion and shedding by the gastrointestinal tract; moderate to heavy amounts of meconium in the amniotic fluid noted during labor and/or delivery.

*Premature rupture of membranes (more than 12 hours)*—Rupture of the membranes at any time during pregnancy and more than 12 hours before the onset of labor.

*Abruptio placenta*—Premature separation of a normally implanted placenta from the uterus.

*Placenta previa*—Implantation of the placenta over or near the internal opening of the cervix.

*Other excessive bleeding*—The loss of a significant amount of blood from conditions other than abruptio placenta or placenta previa.

*Seizures during labor*—Maternal seizures occurring during labor from any cause.

*Precipitous labor (less than 3 hours)*—Extremely rapid labor and delivery lasting less than 3 hours.

*Prolonged labor (more than 20 hours)*—Abnormally slow progress of labor lasting more than 20 hours.

*Dysfunctional labor*—Failure to progress in a normal pattern of labor.

*Breech/malpresentation*—At birth, the presentation of the fetal buttocks rather than the head, or other malpresentation.

*Cephalopelvic disproportion*—The relationship of the size, presentation and position of the fetal head to the maternal pelvis which prevents dilation of the cervix and/or descent of the fetal head.

*Cord prolapse*—Premature expulsion of the umbilical cord in labor before the fetus is delivered.

*Anesthetic complications*—Any complication during labor and/or delivery brought on by an anesthetic agent or agents.

*Fetal distress*—Signs indicating fetal hypoxia (deficiency in amount of oxygen reaching fetal tissues).

## Abnormal conditions of the newborn

*Anemia*—Hemoglobin level of less than 13.0 g/dL or a hematocrit of less than 39 percent.

*Birth injury*—Impairment of the infant's body function or structure due to adverse influences which occurred at birth.

*Fetal alcohol syndrome*—A syndrome of altered prenatal growth and development occurring in infants born of women who consumed excessive amounts of alcohol during pregnancy.

*Hyaline membrane disease/RDS*—A disorder primarily of prematurity, manifested clinically by respiratory distress and pathologically by pulmonary hyaline membranes and incomplete expansion of the lungs at birth.

*Meconium aspiration syndrome*—Aspiration of meconium by the fetus or newborn, affecting the lower respiratory system.

*Assisted ventilation (less than 30 minutes)*—A mechanical method of assisting respiration for newborns with respiratory failure.

*Assisted ventilation (30 minutes or more)*—Newborn placed on assisted ventilation for 30 minutes or longer.

*Seizures*—A seizure of any etiology.

### **Congenital anomalies of child**

*Anencephalus*—Absence of the cerebral hemispheres.

*Spina bifida/meningocele*—Developmental anomaly characterized by defective closure of the bony encasement of the spinal cord, through which the cord and meninges may or may not protrude.

*Hydrocephalus*—Excessive accumulation of cerebrospinal fluid within the ventricles of the brain with consequent enlargement of the cranium.

*Microcephalus*—A significantly small head.

*Other central nervous system anomalies*—Other specified anomalies of the brain, spinal cord, and nervous system.

*Heart malformations*—Congenital anomalies of the heart.

*Other circulatory/respiratory anomalies*—Other specified anomalies of the circulatory and respiratory systems.

*Rectal atresia/stenosis*—Congenital absence, closure, or narrowing of the rectum.

*Tracheo-esophageal fistula/Esophageal atresia*—An abnormal passage between the trachea and the esophagus; esophageal atresia is the congenital absence or closure of the esophagus.

*Omphalocele/Gastroschisis*—An omphalocele is a protrusion of variable amounts of abdominal viscera from a midline defect at the base of the umbilicus. In gastroschisis, the abdominal viscera protrude through an abdominal wall defect, usually on the right side of the umbilical cord insertion.

*Other gastrointestinal anomalies*—Other specified congenital anomalies of the gastrointestinal system.

*Malformed genitalia*—Congenital anomalies of the reproductive organs.

*Renal agenesis*—One or both kidneys are completely absent.

*Other urogenital anomalies*—Other specified congenital anomalies of the organs concerned in the production and excretion of urine, together with organs of reproduction.

*Cleft lip/palate*—Cleft lip is a fissure or elongated opening of the lip; cleft palate is a fissure in the roof of the mouth. These are failures of embryonic development.

*Polydactyly/syndactyly/adactyly*—Polydactyly is the presence of more than five digits on either hands and/or feet; syndactyly is having fused or webbed fingers and/or toes; adactyly is the absence of fingers and/or toes.

*Club foot*—Deformities of the foot, which is twisted out of shape or position.

*Diaphragmatic hernia*—Herniation of the abdominal contents through the diaphragm into the thoracic cavity usually resulting in respiratory distress.

*Other musculoskeletal/integumental anomalies*—Other specified congenital anomalies of the muscles, skeleton, or skin.

*Down's syndrome*—The most common chromosomal defect with most cases resulting from an extra chromosome (trisomy 21).

*Other chromosomal anomalies*—All other chromosomal aberrations.

### **Related reports**

Many of the topics discussed in this report are covered in more analytic detail in other reports published by NCHS. Topics of reports published in the past 5 years include Hispanic origin births (5); twin and triplet births (70, 83); teenage birth rates by State (7); birth rates by educational attainment of the mother (102); cesarean deliveries, attendant at birth, place of delivery, and obstetric procedures (61, 103); births to unmarried mothers (24); trends in pregnancies and pregnancy rates (8); and trends in smoking (37).

This report presents summary tabulations from the final natality statistics for 1999. The National Center for Health Statistics will respond to requests for unpublished data whenever possible.

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### Suggested citation

Ventura SJ, Martin JA, Curtin SC, Menacker F, Hamilton BE. Births: Final data for 1999. National vital statistics reports; vol 49 no. 1. Hyattsville, Maryland: National Center for Health Statistics. 2001.

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DHHS Publication No. (PHS) 2001-1120  
1-0208 (4/2001)

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